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A TABULATION OF THE THERMODYNAMIC PROPERTIES OF NORMAL HYDROGEN FROM LOW TEMPERATURES TO 300°K AND FROM I TO 100 ATMOSPHERES

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November 1961

A TABULATION OF THE THERMODYNAMIC PROPERTIES OF NORMAL HYDROGEN FROM LOW TEMPERATURES TO 300°K AND FROM 1 TO 100 ATMOSPHERES

by

John W. Dean

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A TABULATION OF THE THERMODYNAMIC PROPERTIES OF NORMAL HYDROGEN FROM LOW TEMPERATURES TO 300° K AND FROM 1 TO 100 ATMOSPHERES

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ABSTRACT

Pressure, volume, temperature, internal energy, enthalpy, and entropy of normal hydrogen gas have been tabulated along isobars in 1°K temperature steps. The range covered is from the saturation temperature to 300°K and from a pressure of 1 to 100 atmospheres. The source of data is the Research Paper 1932 of the National Bureau of Standards Journal of Research. The method is described by which the data presented in Research Paper 1932 is reduced to properties directly useful for engineering calculations. A method is also described for estimating the effect of ortho-para compositions upon the tabulated properties.

Tabular values are presented in the dimensional units of the metric system. The tabulations are also available in the dimensional units of the British system as Technical Note No. 120, Supplement A.

INTRODUCTION

The thermodynamic properties of normal hydrogen have been tabulated along isobars in 1°K increments and a method is described for estimating the effect of ortho-para composition on these properties. The reference for this work is Research Paper 1932 (RP 1932) of the National Bureau of Standards Journal of Research⁽¹⁾ where residual thermodynamic functions are tabulated as a function of the amagat density. The task described here is primarily the interpolation from density to pressure as an independent variable and the reduction of the residual functions to thermodynamic properties useful for engineering calculations. In addition, properties of the saturated vapor and liquid have been tabulated.

Obviously, some of this work had been performed before in order to construct the temperature-entropy diagram given in RP 1932 and to tabulate the few isobars given in NBS Circular 564⁽²⁾. It was desired to obtain the thermodynamic properties in a form that would be acceptable as input for electronic digital computers in more detail than previously obtainable. Therefore, it was judged easiest to repeat this work with an electronic digital computer using selected tables of RP 1932 as input. Results were obtained in the form of Hollerith punched cards and magnetic tape.

Properties tabulated are pressure, temperature, specific volume, internal energy, enthalpy, and entropy. The pressure range covered is from 1 to 10 atm in steps of 1 atm and from 10 to 100 atm in steps of 5 atm. Below the critical pressure the temperature ranges from the saturation temperature to 300°K. Above the critical pressure the temperature ranges from slightly above the critical temperature to 300°K. See the T-P plot of Figure 1.

Symbols

P = pressure in atmospheres

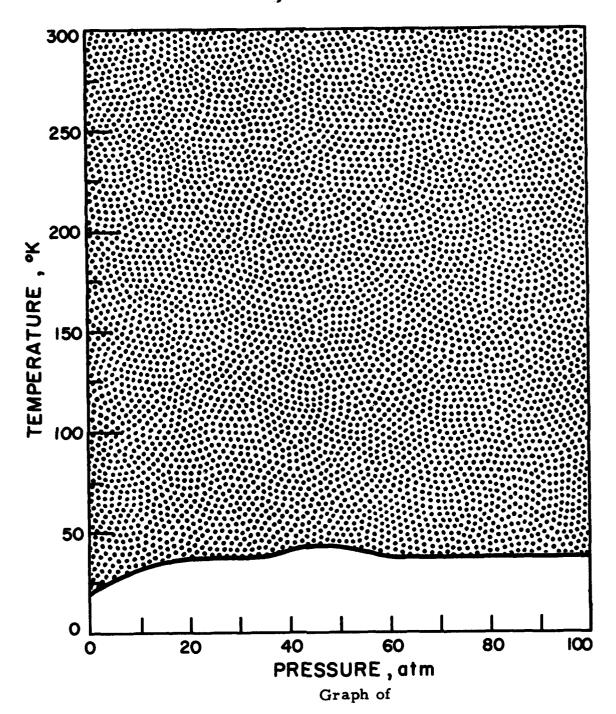
Z = dimensionless compressibility factor = PV/RT

V = volume in liters/mole or cc/gram

 ρ_{\star} = density in moles/liter or grams/cc

 ρ = dimensionless amagat density = ρ_{*}/ρ_{s}

 ρ_s = density at standard conditions (1 atm, 0°C) moles/liter



Temperature - Pressure Region Included in this Report Figure I

= amagat density at the critical point T = temperature in °K = critical temperature - °K = molar gas constant = 8.3144×10^7 erg-mole⁻¹-°K⁻¹ R = enthalpy of real gas in cal/mole or cal/gram Н но = enthalpy of ideal gas in cal/mole $\mathbf{E}^{\mathbf{o}}$ = zero temperature residual energy - cal/mole S = entropy of real gas in cal/mole - °K or cal/gram - °K s^{o} = entropy of ideal gas in cal/mole - °K = entropy of ideal gas at one atmosphere in cal/mole - °K = entropy of ideal gas at one amagat in cal/mole - °K = internal energy of real gas in cal/mole or cal/gram U

All units are as defined above except where noted. Symbols representing coefficients of equations and subscripts are defined in the text.

= specific heat of real gas in cal/mole - °K

= molecular weight in grams/mole

= ideal specific heat in cal/mole - °K

Physical Constants. The physical constants are those used in RP 1932. The molar volume of hydrogen at standard conditions (1 atm and 0°C) is 22.4279 liters. The molecular weight is 2.01572 grams and the gas constant R is 1.98714 cal/mole -°K. It is recognized that more recent determinations of the gas constant have been made; however, the value stated is intrinsically incorporated in the tables of RP 1932 and therefore was used in reducing these tables. Correcting this gas constant to a more recent value may be done if desired.

GASEOUS HYDROGEN

Data Reduction. The authors of RP 1932 have chosen to present the following parameters at constant temperature in tabular form as a function of the amagat density:

P - pressure,

Z - dimensionless compressibility = PV/RT,

 $\frac{H^{0}-H}{RT}$ - dimensionless enthalpy residual function,

 $\frac{S^{\circ}-S}{R}$ - dimensionless entropy residual function.

Residual functions are the differences between values for real and ideal gas at the same temperature and density. To determine H and S, the values of H^O and S^O must first be known.

Values of H^{O} - E^{O} are tabulated on page 390 of RP 1932. The residual zero point energy of the ideal gas, E^{O}_{O} , was defined as zero. Since H^{O} is a function of the temperature only; the value of H was found directly from the enthalpy residual at the desired temperature and density.

 S^{O} is a function of both the temperature and density and therefore more steps are required to determine S. The ideal entropy at one atmosphere is tabulated on page 390 of RP 1932 as a function temperature. The residual function $(S^{O}_{P=1} - S^{O}_{P=1}) / R$ is tabulated on page 436. The value of $S_{P=1}$ was then found for each temperature. The relationship between the ideal entropy at the same temperature and the desired density was found from the relationship:

$$\left(S_{\rho=1}^{O}-S^{O}\right)/R=\ln\rho. \tag{1}$$

Once S^{O} was found, then S was directly determined for the same temperature and density from tables of $(S^{O} - S) / R$ given on page 436 of RP 1932.

The specific volume was calculated from the compressibility corresponding to the desired pressure while the internal energy was calculated from the relationship:

$$U = H - 24.2179 PV.$$
 (2)

The molecular weight was used to convert units of properties tabulated in this work to a gram basis.

Interpolation. Tables of P, Z, (H^o-H)/RT and (S^o-S)/R were constructed from RP 1932 for a selected number of temperatures and treated as computer input. A Lagrangian interpolation routine of a fourth order was used to determine values of Z, (H^o-H)/RT and (S^o-S)/R for even values of P. This interpolation was done for twenty five isotherms spaced closer together near the critical temperature. The thermodynamic properties were then calculated as described at the even values of pressures for the selected temperature.

Isobaric tables of P, T, U, H, S, and V were compiled from the results of the isothermal interpolation. These tables were used as input to a tenth order Lagrangian interpolation routine that produced the properties in one degree temperature increments along isobars. A tenth order was necessary to obtain sufficient accuracy near the critical point.

COMPRESSED FLUID REGION

Residual enthalpy and entropy functions have not been tabulated in RP 1932 for the region near the critical temperature and above the critical pressure; however, an estimate of these properties is given in the temperature entropy diagram in RP 1932. Properties were read from the chart and compiled along isobars. These data were then smoothed with a least squares computer program. The maximum extension of data with this technique is between 60 and 36°K for the 100 atmosphere isobar. This method is recognized as being less desirable than a calculation of thermodynamic properties from PVT data. It was adopted as an interim solution until new PVT measurements are available.

SATURATED VAPOR PROPERTIES

The enthalpy, internal energy, and entropy of the saturated vapor are not tabulated in RP 1932. These properties were found from the saturated PVT data with the aid of thermodynamic equations and an equation of state. A PVT relationship derived from a correlation for the region of pressures less than critical is:

$$\frac{3}{\Gamma^{2}}\left(1-\frac{PV}{RT}\right) = A + C\rho. \tag{3}$$

A and C are coefficients derived from the correlation and tabulated as a function of temperature on page 430 of RP 1932. The equation may be rewritten using the definition of the amagat density as follows:

$$P = R\rho_* T - \frac{AR\rho_*^2 T^{-\frac{1}{2}}}{\rho_s} - \frac{CR\rho_*^3 T^{-\frac{1}{2}}}{\rho_s^2}. (4)$$

The derivative of this equation with respect to T at constant ρ_{\star} is:

$$\left(\frac{\partial P}{\partial T}\right) = R\rho_* + \frac{AR\rho_*^2 T - \frac{3}{2}}{2\rho_s} - \frac{R\rho_*^2 T - \frac{1}{2}}{\rho_s} \frac{dA}{dT}$$

$$+ \frac{CR\rho_{*}^{3} - \frac{3}{2}}{2\rho_{s}^{2}} - \frac{R\rho_{*}^{3} - \frac{1}{2}}{\rho_{s}^{2}} \frac{dC}{dT}$$
 (5)

The thermodynamic equations used to calculate the enthalpy and the entropy along isotherms were derived from the literature (3) and are as follows:

$$H_{T,P} = H^{o} + RT(Z-1) + \int_{o}^{\rho_{*}} \left[\frac{P}{\rho_{*}^{2}} - \frac{T}{\rho_{*}^{2}} \left(\frac{\partial P}{\partial T} \right)_{\rho_{*}} \right] d\rho_{*}.$$
 (6)

$$S_{T,P} = S_{P=1}^{o} - R \ln(\rho_{*}RT) + \int_{0}^{\rho_{*}} \left[\frac{R}{\rho_{*}} - \frac{1}{\rho_{*}^{2}} \left(\frac{\partial P}{\partial T} \right)_{\rho_{*}} \right] d\rho_{*}. \quad (7)$$

Equations 4 and 5 were substituted into equations 6 and 7 and the integration performed yielding the following expressions.

$$H_{T,P} = H^{o} - \frac{3}{2} \rho ART^{-\frac{1}{2}} + \rho \frac{dA}{dT} RT^{\frac{1}{2}} - \frac{3}{4} \rho^{2} CRT^{-\frac{1}{2}}$$

$$+ \frac{1}{2} \rho^{2} \frac{dC}{dT} RT^{\frac{1}{2}} + RT(Z-1). \qquad (8)$$

$$S_{T,P} = S_{P=1}^{o} - RIn(\rho_{*}RT) - \frac{ART}{2} \rho + RT - \rho \frac{dA}{dT}$$

$$-\frac{3}{2} - \frac{-\frac{1}{2}}{4} \rho^2 + \frac{RT}{2} \rho^2 \frac{dC}{dT} . \tag{9}$$

All the terms needed to evaluate equations 8 and 9 are tabulated in RP 1932 on page 390 and 430 as a function of temperature. The saturation temperature for even values of pressure had to be found and these terms interpolated. The vapor pressure equation of RP 1932, page 454, was used and rewritten in the following form:

$$T^2 + (A - Log_{10}P) \frac{T}{C} + \frac{B}{C} = 0$$
 (10)

where

P = pressure in mm Hg

T = temperature -°K

and the coefficients in consistent units are

A = 4.66687 B = -44.9569

C = 0.020537.

The rational root of T was found for pressures ranging from 1 to 10 atmospheres, with the aid of the quadratic equation. The data tabulated on page 390 and 430 of RP 1932 were fitted using a least squares method and evaluated at the saturation temperature. All the data, with the exception of the density were fitted to simple polynomials. The saturated vapor density required a more complex function. Guggenheim (4) suggested two formulas to describe the reduced densities of coexisting liquid and gas phases. These formulas were solved for the saturated vapor density reduced by the critical density. The resulting equation does not accurately define the saturated vapor curve; however, it suggests a power series that proved to be satisfactory. The saturated vapor amagat density was fitted to the following function:

$$\frac{\rho}{\rho_c} = \sum_{n=0}^{n=6} A_n \left(1 - \frac{T}{T_c}\right)^{\frac{n}{3}}$$
(11)

where

 $A_0 = +335.12718$

 $A_1 = -413.45285$

 $A_2 = +205.88693$

 $A_3 = +276.27619$

 $A_{\Delta} = -1038.60494$

 $A_5 = +2126.07236$

 $A_6 = -1073.75112$.

This function fits the saturated vapor density curve from the critical temperature to 18°K with a maximum deviation of about 0.1%. The resulting data were used to evaluate equations 7 and 8 for the saturated vapor. These calculations appear as the first entry of the isobaric tabulations for pressures of 1 to 10 atmospheres.

SATURATED LIQUID PROPERTIES

A table of estimated saturated liquid properties of normal hydrogen have been included to aid engineering calculations. The enthalpy and entropy have been found by plotting and smoothing the data presented in the temperature-entropy diagram of RP 1932. It is recognized that these properties are not well defined (see the discussion, page 468 of RP 1932). For instance, calculation of these properties from the latent heat of vaporization equation, page 465 of RP 1932, and the saturated vapor properties tabulated in this work gives an enthalpy value six percent low and the entropy value six percent high from the values tabulated at five atmospheres. Better agreement is obtained (within one percent) at one atmosphere.

The specific volume of the saturated liquid has been taken from table 31, page 460 of RP 1932. The internal energy was calculated from equation 2.

Tables of Saturated Liquid Properties of Normal Hydrogen

Pres-	Tempera-	Specific	Enthalpy	Internal	Entropy
sure _atm	ture °K	Volume cc/gm	${\tt cal/gm}$	Energy cal/gm	cal/gm-°K
<u> </u>	20. 39	14.09	65. 0	64.7	4. 14
2	22. 97	14.78	71.5	70.8	4. 44
3	24. 74	15.38	76. 5	75. 4	4.61
4	26. 13	15.92	81.5	80.0	4. 78
5	27. 29	16.47	86. 0	84.0	4.91
6	28. 29	17.06	90. 5	88.0	5.04
7	29. 19	17.71	95. 0	92.0	5. 15
8	29. 99	18.45	99.0	95.4	5.30
9	30.73	19.39	103.5	99.3	5. 43
10	31. 41	20.39	108.0	103.0	5. 53

EFFECT OF ORTHO-PARA CONCENTRATION

The thermodynamic properties tabulated in this report are for normal hydrogen (25% para and 75% ortho). Frequently the engineer desires to predict these properties for other ortho-para compositions. Methods outlined below can be used to make such predictions.

The pressure, volume, temperature relationship for gaseous and liquid hydrogen is not strongly affected by the ortho-para composition. Goodwin (5) of NBS is measuring the PVT properties of gaseous parahydrogen. His preliminary results have been checked against measurements of normal hydrogen. The differences are small, but measurable, amounting to about 0.1 percent at a temperature of 80°K and 100 atm. The molar volume of liquid normal hydrogen and liquid parahydrogen under saturation conditions are also given in RP 1932, page 460, and are seen to differ by about one-half percent; the molar volume of parahydrogen being greater than that of normal hydrogen. It is perhaps fortunate that the differences are indeed small or the PVT data of early investigators (before the directory of ortho-para forms of hydrogen) would be less useful.

The enthalpy, entropy, and specific heat of hydrogen are strongly affected by the ortho-para composition. The effect on these properties for hydrogen in the ideal gas state is given in table 4, page 387, of RP 1932. The correction of these properties, starting from data on normal hydrogen in the real gas state, for other ortho-para compositions may be made with the aid of this table. In general, assuming the correction to be independent of density, the difference between the properties for normal hydrogen and hydrogen of some other orthopara composition in the ideal gas state is algebraically added to the properties for the real normal gas tabulated in this report. This must be done at the same temperature and may be expressed as follows:

$$C_{\mathbf{P}_{\mathbf{x}}} = C_{\mathbf{P}_{\mathbf{n}}} + \Delta C_{\mathbf{P}(\mathbf{n}-\mathbf{x})}^{\mathbf{o}}$$
 (12)

$$H_{X} = H_{n} + \Delta H^{O}_{(n-x)}$$
 (13)

$$S_{x} = S_{n} + \Delta S_{(n-x)}^{0}. \tag{14}$$

The subscripts are:

n = mole fraction of normal hydrogen (. 25 Para)

x = mole fraction of desired para concentration.

The incremental terms (Δ) are calculated from table 4, page 387 of RP 1932; the specific heat and enthalpy terms being calculated directly from the para composition as follows:

$$\Delta C_{P(n-x)}^{o} = (x - .25) C_{P(o-p)}^{o}$$
 (15)

$$H_{(n-x)}^{o} = (x - .25) H_{(o-p)}^{o}$$
 (16)

The terms subscripted (o-p) are the difference in the ideal gas state between 100% ortho and 100% para for the property considered.

The ideal entropy of the desired para concentration may be calculated with the expression:

$$S_{x}^{o} = xS_{p}^{o} + (1 - x) S_{o}^{o} - R \left[x \ln x + (1 - x) \ln (1 - x)\right].$$
 (17)

The final term of this equation expresses the entropy of mixing of the ortho-para forms of hydrogen. The incremental term, ΔS^{0} of equation 16 may be determined by subtracting S^{0} from the ideal entropy of normal hydrogen given in table 4 of RP 1932. The signs of the incremental terms of equations 12, 13, and 14 are such that for para concentrations greater than normal that:

$$C_{P_x} > C_{P_n}$$
 $H_x < H_n$
 $S_x < S_n$.

DISCUSSION

The accuracy of the PVT data and the derived thermodynamic properties presented in this work can not exceed the accuracy claimed in RP 1932. The interpretations and data reduction of this work may be checked for a few isobars against the tabulated values of properties given in NBS cir. 564. Good agreement has been obtained over the entire range. Energy functions tabulated in this work contain up to six figures; four of these figures may be considered significant while the last two figures are in doubt. The specific volume data contains up to seven figures; five of these figures may be considered significant. The additional figures have been carried in order to obtain internal consistency when the tables are used in the calculation of thermodynamic processes.

The initial tabulation used the calorie unit to permit ready comparison with the results in RP 1932. The tabulation included in this report uses joules as the energy unit because the joule is considered at the present time a more suitable standard. A supplementary edition (6) is available giving the tabulated properties in British units.

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Tables of Thermodynamic Functions

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)	(U/Q// K/	(K)	(CC/GM)	(3/94)		(J/GH-K)
****	166.001		(3/0//		(K)	(CC/GM)		(J/GM)	
20.390	751.13	717.97	641.87	20 180					
204370	13(413	171031	041.01	39.158					
23 00	700 10	700 04							
21.00	780.49	725.34	646.14	39,422	91.00	3701.91	1473.84	1098.73	55.276
22.00	827.21	737.05	653.08	39.940	92.00	3742.78	1484.84	1105.59	55.396
23.00	872.77	748.48	659.94	40.480	93.00	3783.65	1495.86	1112.47	55.516
24.00	917.62	759.73	666.68	41.003	94.00	3824.52	1506.91	1119.38	55.634
25.00	962.03	770.86	673.37	41.484	95.00	3865.38	1517.99	1126.32	55.751
26.00	1006.13	781.95	680.03	41.932	96.00	3906.23	1529.09	1133.28	55.867
27.00	1049.95	793.00	686.62	42.352	97.00	3947.09			
28.00	1093.54	803.98	693.17	42.750			1540.22	1140-27	55.983
29.00	1136.86	814.89	699.69	43.131	98.00	3987.94	1551.38	1147.29	56.097
30.00	1179.94				99.00	4028.79	1562.56	1154.33	56.211
30.00	1112024	825.75	706.19	43.499	100.00	4069.64	1573.77	1161.41	56.324
31.00	1222.82	836.56	712.66	43.855	101.00	4110.48	1585.01	1168.51	56.436
32.00	1265.54	847.34	719.10	44.197	102.00	4151.31	1596.28	1175.64	56.547
33.00	1308.13	858.09	725.54	44.528	103.00	4192.14	1607.58	1182.80	56-657
34.00	1350.61	868.82	731.97	44.846	104.00	4232.97	1618.91	1189.99	56.767
35.00	1392.96	879.55	738.40	45,155	105.00	4273.79	1630.26	1197.20	56.875
36.00	1435.18	890.25	744.83	45,455	106.00	4314.61	1641.64	1204.45	56.983
37.00	1477.28	900.93	751.24	45.748	107.00	4355.43			
38.00	1519.26	911.58	757.63	46.033	108.00		1653.06	1211.73	57.090
39.00	1561.18	922.18	763.98	46.309		4396.24	1664.50	1219.03	57-197
					109.00	4437.06	1675.97	1226.36	57.302
40.00	1603.04	932.73	770.29	46.577	110.00	4477.87	1687.47	1233.73	57.407
41.00	1644.85	943.25	776.57	46.838	111.00	4518.68	1698.99	1241.12	57.511
42.00	1686.62	953.74	782.84	47.092	112.00	4559.48	1710.55	1248.54	57.614
43.00	1728.31	964.25	789.13	47.340	113.00	4600.29	1722.14	1255.99	57.717
44.00	1769.94	974.77	795.43	47,583	114.00	4641.10	1733.75	1263.47	57.819
45.00	1811.53	985.30	801.74	47.819	115.00	4681.90	1745.40	1270.98	
46.00	1853.06	995.84	808-07	48.051	116.00				57.920
47.00	1894.56	1006.36	814.39	48.277		4722.71	1757-07	1278-52	58.020
48.00	1936.02	1016.86			117.00	4763.52	1768.78	1286.09	58.120
_	1977.45		820.69	48.497	118.00	4804.32	1780.51	1293.69	58.220
49.00		1027.36	826.99	48.713	119.00	4845.13	1792.27	1301.31	58.318
50.00	2018.85	1037.84	833.27	48.924	120.00	4885.94	1804.06	1308.97	58.416
•• ••									
51.00	2060.22	1048.32	839.56	49.130	121.00	4926.75	1815.88	1316.65	58.514
52.00	2101.56	1058.60	845.85	49.333	122.00	4967.56	1827.73	1324.37	58.611
53.00	2142.87	1069.27	852.13	49.532	123.00	5008.37	1839.60	1332.11	58.707
54~00	2184.15	1079.74	858.42	49.728	124.00	5049.18	1851.51	1339.88	58-803
55.00	2225.41	1090.22	864.71	49.920	125.00	5089.99	1863.44	1347.68	-
56.00	2266.65	1100.69	871.01	50.109	126.00				58.898
57.00	2307.87	1111.17	877.31	50.295		5130.77	1875.40	1355.51	58.993
58.00	2349.07				127.00	5171.56	1887.40	1363.37	59.088
	2390.25	1121.65	883.62	50.478	128.00	5212.34	1899.42	1371.26	59.182
59.00		1132.14	889.93	50.658	129.00	5253.11	1911.46	1379.17	59.276
60.00	2431.41	1142.63	896.26	50.836	130.00	5293.89	1923.54	1387.12	59.369
			_						
61.00	2472.55	1153.12	902.58	51.010	131.00	5334.67	1935.64	1395.09	59.462
62.00	2513.67	1163.62	908.91	51.181	132.00	5375.44	1947.77	1403.09	59.554
63.00	2554.78	1174.12	915.25	51.349	133.00	5416.22	1959.93	1411.11	59.646
64.00	2595.88	1184.64	921.60	51.515	134.30		1972.12	1419.17	59.738
65.00	2636.96	1195.16	927.96	51.677	135.00	5497.76	1984.33	1427.25	59.829
66.00	2678.03	1205.69	934.33	51.838	136.00	5538.54			
67.00	2719.10	1216.23	940.71	51.996			1996.57	1435.36	59.919
68.00	2760.15	1226.78	947.10	52,152	137.00	5579.31	2008-84	1443.49	60.010
69.00	2801.19	1237.35	953.51		138.00	5620.08	2021.13	1451.65	60.099
				52.305	139.00	5660.86	2033.45	1459.84	60.189
70.00	2842.22	1247.92	959.93	52.456	140.00	5701.63	2045.80	1468.06	60.278
71	2222	1056							
71.00	2883.23	1258.51	966.36	52.606	141.00	5742.40	2058.17	1476.30	60.366
72.00	2924.23	1269.10	972.80	52.754	142.00	5783.18	2070.56	1484.56	60.455
73.00	2965.22	1279.71	979.26	52,901	143.00	5823.95	2082.99	1492.85	60.542
74.00	3006.20	1290.34	985.73	53.045	144.00	5864.72	2095.43	1501.17	60-630
75.00	3047.18	1300.98	992.22	53.188	145.00	5905.50	2107.91	1509.51	60.717
76.00	3088.15	1311.64	998.72	53.329	146.00	5946.27	2120.41	1517.88	60.803
77.00	3129.11	1322.31	1005.24	53.469	147.00	5987.05	2132.93	1526.27	60.889
78.00	3170-07	1333.00	1011.78	53.607	148.00		2145.47		
79.00	3211.02	1343.70	1018.34	53.744		6027.82		1534.69	60.975
80.00	3251.96	1354.43	1024.92		149.00	6068-60	2158.04	1543.13	61.060
4000	JA JA 9 70	1 J J T G T J	1047674	53.879	150.00	6109.37	2170.64	1551.59	61.145
01 00	2202 00	19/5	1021						
81.00	3292.89	1365.17	1031.52	54.013	151.00	6150.13	2183.26	1560.08	61.229
82.00	3333.81	1375.94	1038.13	54.145	152.00	6190.88	2195.90	1568.59	61.313
83.00	3374.73	1386.73	1044.77	54.275	153.00	6231.64	2208.56	1577.12	61.396
84.00	3415.64	1397.53	1051.44	54.405	154.00	6272.40	2221.25	1585.68	61.479
85.00	3456.55	1408.36	1058.12	54,533	155.00	6313.15	2233.96	1594.26	61.562
86.00	3497.46	1419.22	1064.83	54.660	156.00	6353.91	2246.69	1602.86	
87.00	3538.36	1430.09	1071.56	54.785	157.00	6394.66			61.644
88.00	3579.25	1440.99	1078.32	54.910			2259.44	1611.49	61.726
89.00	3620.14	1451.92	1085.10		158.00	6435.42	2272.22	1620.13	61.807
90.00				55.033	159.00	6476.17	2285.02	1628.80	61.888
>U # UU	3661.03	1462.86	1091.90	55.155	160.00	6516.93	2297.84	1637.49	61.968

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
141 00	4557 45	2210 60	1444 - 21	62.048	231.00	9409.41	3251.81	2298.37	66.889
161.00 162.00	6557.68 6598.44	2310.68 2323.55	1646.21 1654.94	62.128	232.00	9450.17	3265.72	2308.16	66.949
163.00	6639.19	2336.43	1663.69	62.207	233.00	9490.93	3279.65	2917.95	67.009
164.00	6679.95	2349.34	1672.47	62.286	234.00	9531.68	3293.58	2327.75	67.068
165.00	6720.70	2362.26	1681.27	62,365	235.00	9572.43	3307.52	2337.56	67.127
166.00	6761.46	2375.21	1690.09	62.443	236.00	9613.18	3321.46	2347.37	
167.00	6802.22	2388.18	1698.92	62,521	237.00	9653.93	3335.42	2357.20	67.246
168.00	6842.97	2401.16	1707.78	62.598	238.00	9694.67	3349.38	2367.03	67.304
169.00	6883.73	2414.17	1716.66	62.675	239.00	9735.41	3363.35	2376.87	67.363
170.00	6924.49	2427.20	1725.56	62.752	240.00	9776.14	3377.33	2386.72	67.421
171 00	404E 33	3440 34	1724 40	62.828	241.00	9816.87	3391.31	2396.58	67.479
171.00	6965.23 7005.98	2440.24 2453.31	1734.48 1743.41	62.904	242.00	9857.59	3405.30	2406.45	
172.00 173.00	7046.73	2466.40	1752.37	62.580	243.00	9898.30	3419.30	2416.32	
174.00	7087.47	2479.50	1761.35	63.056	244.00	9939.01	3433.30	2426.20	
175.00	7128.21	2492.63	1770.34	63,131	245.00	9979.71	3447.31	2436.08	67.710
176.00	7169.96	2505.77	1779.36	63.206	246.00	10020-40	3461.33	2445.98	
177.00	7209.70	2518.93	1788.39	63.260	247.00	10061-09	3475.35	2455.88	
178.00	7250.44	2532.11	1797.44	63.355	248+00	10101.76	3489.38	2465.78	
179.00	7291.18	2545.31	1806.51	63.429	249.00	10142.43	3503.41	2475.69	
180.00	7331.92	2558.52	1815.59	63.502	250.00	10183.09	3517.45	2485.61	67.993
		2532	1694 94	42 575	251	10220 74	2521 40	2495.54	68.049
181.00	7372.67	2571.75	1824.70	63.575	251.00	10223.74	3531.49 3545.54	2505.47	_
182.00	7413.41	2585.00	1833.82 1842.95	63.648 63.721	252.00 253.00	10264.39 10305.03	3559.59	2515.41	
183.00	7454.15 7494.89	2598•27 2611•55	1852.11	63.794	254.00	10345.65	3573.65	2525.35	
184.00 185.00	7535.63	2624.85	1861.28	63.866	255.00	10386.28	3587.72	2535.30	
186.00	7576.37	2638.17	1870-47	63.937	256.00	10426.89	3601.79	2545.26	
187.00	7617.11	2651.50	1879.68	64.009	257.00	10467.50	3615.86	2555.22	
188.00	7657.85	2664.85	1888.90	64.080	258.00	10508+10	3629.94	2565.19	68.436
189.00	7698.58	2678.22	1898.13	64.151	259.00	10548.69	3644.03	2575.16	
190.00	7739.32	2691.60	1907.39	64.222	260.00	10589.28	3658.12	2585.14	68 • 545
191.00	7780.06	2704.99	1916.66	64.292	261.00	10629.87		2595.13	
192.00	7820.80	2718.41	1925.94	64.362	262.00	10670-45		2605.12	
193.00	7861.54	2731.83	1935.24	64.432	263.00	10711.03	3700.42 3714.54	2615•12 2625•12	
194.00	7902.28	2745.28	1944.56	64.501 64.571	264.00 265.00	10751.61 10792.18		2635.13	
195.00	7943.02	2758.73 2772.21	1953.88 1963.23	64.640	266.00	10832.76		2645.14	
196.00 197.00	7983.75 8024.49	2785.69	1972.59	64.708	267.00	10873.33		2655-16	
198.00	8065.23	2799.19	1981.96	64,777	268.00	10913.91		2665.19	
199.00	8105.97	2812.71	1991.35	64.845	269.00	10954.50		2675.22	
200.00	8146.71	2826.24	2000.75	64.913	270.00	10995.08		2685.26	69.079
				•					
201.00	8187.43	2839.78	2010.16	64,980	271.00	11035.68		2695.31	
202.00	8228.16	2853.33	2019.59	65.047	272.00	11076-28		2705.36	
203.00	8268.88	2866.90	2029.03	65.114	273.00	11116-88		2715.41	
204.00	8309.60	2880.48	2038.49	65.181	274.00	11157.50		2725.48	
205.00	8350.33	2894.07	2047.95	65.248	275.00	11198-13		2735.55	
206.00	8391.05	2907.68	2057-43	65.314	276+00 277+00	11238.77		2745•63 2755•71	
207.00	8431.78	2921.30	2066.93	65.380 65.445	278.00	11279.42 11320.09		2765.80	
208.00	8472.50	2934.93 2948.58	2076•44 2085•96	65.511	279.00	11360.77		2775.89	
209.00 210.00	8513.23 8553.95	2962.23	2095.49	65.576	280.00	11401.47		2786.00	
-1000									
211.00	8594.68	2975.91	2105.03	65.641	281.00	11442.18	3955.52	2796.10	
212.00	8635.41	2989.59	2114.59	65.706	282.00	11482.92		2806.22	
213.00	8676.13	3003.29	2124.16	65.770	283.00	11523.67			
214.00	8716.86	3016.99	2133.74	65.834	284.00	11564.44		2826.47	
215.00	8757.59	3030.72	2143.34	65,898	285.00	11605.23		2836.60	
216.00	8798.32	3044.45	2152.94	65.962	286.00	11646.04		2846.74	
217.00	8839.05	3058.19	2162.56	66.025	287.00	11686.87		2856.89	
218.00	8879.79	3071.95	2172.19	66.088	288.00 289.00	11727.72		2867.04 2877.20	
219.00	8920.52	3085.72	2181.83	66.151		11768.59 11809.47			
220.00	8961.25	3099.50	2191.48	66.214	290.00	11007071	7007101	2001431	. 4-0/0
221.00	9001.99	3113.29	2201.15	66.276	291.00	11850.38	4098.33	2897.54	70-145
222.00	9042.73	3127.09	2210.82	66.339	292.00	11891.30			
223.00	9083.46	3140.91	2220.51	66.401	293.00	11932.24		2917.90	
224.00	9124.20	3154.73	2230.20	66.463	294.00	11973.20		2928.08	
225.00	9164.94	3168.57	2239.91	66.524	295.00	12014.16			
226.00	9205.68	3182.42	2249.63	66.585	296.00	12055.14			
227.00	9246.42	3196.27	2259.36	66.647	297.00	12096-13		2958-67	
228.00	9287.16	3210.14	2269.09	66.707	298.00	12137-12			
229.00	9327.91	3224.02	2278.84	66.768	299.00	12178-12			
230.00	9368.65	3237.91	2288.60	66.829	300.00	12219.11	4227.43	2989.29	70.580

	70 477-00-110	.nc 1000An							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTUAL BY	INTERNAL	FHIDARY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	ENTHALPY (J/GM)	INTERNAL	ENTROPY
(K)	(CC/GM)		(J/GM)	(O) GA K	(K)	(CC/GM)	(3/0/1)	ENERGY	(J/GM-K)
			10,007		1 1 7	(CC/GM)		(J/GM)	
					91.00	1849.81	1472.03	1007 15	53 400
22.970	398.74	729.31	648.52	37.162	92.00	1870.33	1483.07	1097-15	52.400
23.00	399.41	729.65	648.73	37.179	93.00	1890.85		1104.03	52.521
24.00	425.01	742.49	656.39	37.710	94.00		1494.13	1110.94	52-640
25.00	450.00	755.00	663.79	38,229	95.00	1911.36	1505.22	1117.87	52.759
26.00	474.44	767.22	671.08	38.716		1931.87	1516.33	1124.83	52.876
27.00	498.41	779.23	678.22	39.171	96.00	1952.37	1527.47	1131.61	52.993
28.00	521.98	791.05	685.27	39.599	97.0 0	1972.87	1538.63	1138.82	53.109
29.00	545.22	802.72	692.23	40.007	98.00	1993.37	1549.83	1145.86	53.224
30.00	568.19	814.26	699.11		99.00	2013.87	1561.04	1152.92	53.338
	,,,,,,	414650	077611	40.398	100.00	2034.36	1572.29	1160.01	53.451
31.00	590.93	825.69	705.94	40 774	101 00				
32.00	613.47	837.03	712.71	40.774	101.00	2054.85	1583.56	1167.13	53.563
33.00	635.82	848.29	719.44	41.134	102.00	2075.33	1594.86	1174.28	53.675
34.00	658.02	859.49		41.480	103.00	2095.81	1606.19	1181.46	53.785
35.00	680.08		726.14	41.812	104.00	2116.28	1617.54	1188.66	53.895
36.00		870.64	732.82	42.134	105.00	2136.75	1628.93	1195.90	54.004
	702.01	881.74	739.47	42.445	106.00	2157.22	1640.34	1203.16	54.112
37.00	723.83	892.78	746.10	42.748	107.00	2177.69	1651.78	1210.45	54.219
38.10	745.55	903.77	752.68	43.042	108.00	2198.16	1663.24	1217.77	54.326
39.00	767.19	914.68	759.20	43.326	109.00	2218.62	1674.74	1225.12	54.432
40 <u>+0</u> 0	788.74	925.51	765.67	43.602	110.00	2239.08	1686.26	1232.49	54.537
49									
41.00	810.22	936.30	772.10	43.870	111.00	2259.54	1697.82	1239.90	54.641
42.00	831.63	947.04	778.51	44.129	112.00	2280.00	1709.40	1247.34	54.744
43.00	852.99	957.79	784.93	44.383	113.00	2300.45	1721.01	1254.80	54.847
44.00	874.29	968.54	791.36	44.631	114.00	2320.91	1732.65	1262.29	54.949
45.00	895.54	979.28	797.79	44.873	115.00	2341.36	1744.31	1269.81	55.051
46.00	916.75	990.02	804.24	45.109	116.00	2361.81	1756.01	1277.36	55.151
47.00	937.91	1000.73	810.66	45.339	117.00	2382.27	1767.73	1284.94	55.252
48.00	959.04	1011.42	817.07	45.563	118.00	2402.72	1779.49	1292.55	55.351
49.00	981.13	1022.09	823.46	45.782	119.00	2423.17	1791.27	1300.19	55.450
50.00	1001.18	1032.73	829.84	45.996	120.00	2443.62	1803.08	1307.86	
		-				2442602	1003400	1307.00	55.548
51.00	1022.20	1043.37	836.21	46.206	121.00	2464.07	1814.92	1215 68	
52.00	1043.19	1054.00	842.59	46.411	122.00	2484.52	1826.79	1315.55	55.646
53.00	1064-15	1064.61	848.95	46.613	123.00	2504.98		1323.28	55.743
54.00	1085.08	1075.22	855.31	46.811	124.00		1838.68	1331.03	55.839
55.00	1105.99	1085.82	861.68	47.005	125.00	2525.43	1850.61	1338.81	55.935
56.00	1126.88	1096.42	868.04	47.197	126.00	2545.88	1862.56	1346.62	56.030
57.00	1147.75	1107.01	874.41	47.385		2566.31	1874.54	1354.46	56.126
58.00	1168.60	1117.61	880.78		127.00	2586.74	1886.55	1362.33	56.221
59.00	1189.43	1128.21	887.16	47.570	128.00	2607.17	1898.58	1370.22	56.315
60.00	1210.25			47.752	129.00	2627.60	1910.65	1378.15	56•409
0000	1210029	1138.81	893.55	47.932	130.00	2648.03	1922.74	1386.10	56.502
61.00	1221.04	1140 40	800 00	40 140					
	1231.04	1149.40	899.93	48.107	131.00	2668.45	1934.86	1394.08	56.595
62.00	1251.81	1160.00	906.32	48.280	132.00	2688.88	1947.01	1402.09	56.688
63.00	1272.57	1170.60	912.71	48.450	133.00	2709.30	1959.18	1410.12	56.780
64.00	1293.32	1181.21	919.12	48.617	134.00	2729.72	1971.38	1418.18	56.871
65.00	1314-05	1191.83	925.53	48.781	135.00	2750.14	1983.61	1426.27	56.963
66.00	1334.77	1202.45	931.95	48.943	136.00	2770.57	1995.87	1434.39	57.053
67.00	1355.47	1213.07	938.38	49.102	137.00	2790 . 99	2008-15	1442.53	57.144
68.00	1376.17	1223.71	944.82	49.259	138.00	2811.41	2020.45	1450.70	57.234
69.00	1396.86	1234.35	951.27	49.413	139.00	2831.83	2032.79	1458.90	57.323
70.00	1417.53	1245.00	957.73	49.566	140.00	2852.24	2045.15	1467.12	57.412
** **		**=							
71.00	1438.19	1255.66	964.20	49.717	141.00	2872.66	2057.53	1475.37	57.501
72.00	1458.84	1266.33	970.69	49.866	142.00	2893.08	2069.94	1483.64	57.589
73.00	1470.48	1277.01	977.18	50.013	143.00	2913.50	2082.38	1491.94	57.677
74.00	1500.11	1287.70	983.69	50.159	144.00	2933.92	2094.84	1500.26	57.765
75.00	1520.74	1298.40	990.21	50.302	145.00	2954.33	2107.33	1508.61	57.852
76.00	1541.35	1309.11	996.75	50.444	146.00	2974.75	2119.84	1516.99	57.938
77.00	1561.96	1319.84	1003.30	50.585	147.00	2995.17	2132.37	1525.39	58.024
78.00	1582.56	1330.58	1009.87	50.724	148.00	3015.58	2144.93	1533.81	58.110
79.00	1603.16	1341.34	1016.45	50.861	149.00	3036.00	2157.52	1542.26	
80.00	1623.75	1352.11	1023.05	50.997	150.00	3056.41	2170.12	1550.73	58.196 58.281
						2020041	£110.15	1770013	304501
81.00	1644.33	1362.91	1029.68	51.131	151.00	3076.82	2102.75	1550 22	E0 3/5
82.00	1664.90	1373.73	1036.33	51.264			2182.75	1559.22	58.365
83.00	1685.46	1384.56	1042.99	51.395	152.00	3097.22	2195.41	1567.74	58.449
84.00	1704.02	1395.42	1042.99		153.00	3117.63	2208.08	1576.28	58.532
85.00	1726.58	1406.29		51.525 51.484	154.00	3138.03	2220.78	1584.85	58.615
86.00	1747.13	1406.29	1056.39	51.654	155.00	3158.43	2233.51	1593.43	58.698
87.00	1767.68		1063.13	51.781	156.00	3178.84	2246.25	1602.04	58.780
88.00		1428.11	1069.88	51.907	157.00	3199.24	2259.02	1610.67	58.861
89.00	1788.22	1439.06	1076.66	52.032	158.00	3219.64	2271.81	1619.33	58.943
	1808.75	1450.02	1083.47	52.156	159.00	3240.04	2284 • 62	1628.00	59.024
90.00	1829.29	1461.02	1090.30	52.278	160.00	3260.44	2297.45	1636.70	59.104

	******	EMTIMAL BY	THITEOMAI	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
ATURE	VOLUME (CC/GM)	(J/GM)	(J/GM)	(J/GH-K/	(K)	(CC/GM)		(J/GM)	
(K)	1((,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(J/ GH)		,				
161.00	3280.84	2310.31	1645.42	59.184	231.00	4707.81	3251.97	2297.91	64.028
162.00	3301.25	2323.18	1654.16	59.264	232.00	4728.20	3265.89	2307.69	64.088
163.00	3321.65	2336.08	1662.93	59.343	233.00	4748.59	3279.82	2317.49	64.148
164.00	3342.05	2349.00	1671.71	59.422	234.00	4768.98	3293.76	2327.29	64.207
165.00	3362.45	2361.93	1680.51	59.501	235.00	4789.36	3307.70	2337.10	64+267
166.00	3382.85	2374.89	1689.34	59.579	236.00	4805.75	3321.65	2346.92	64.326
167.00	3493.25	2387.87	1698.18	59.657	237.00	4830.13	3335.61	2356.75	64.385
168.00	3423.65	2400.87	1707.04	59.735	238.00	4850.51	3349.58	2366.59	64.443
169.00	3444.05	2413.89	1715.93	59.812	239.00	4870-89	3363.55	2376.43	64.502
170.00	3464.45	2426.93	1724.83	59.888	240+00	4891.27	3377.54	2386.29	64.560
				EO 045	241.00	4011.44	3391.53	2396.15	64-618
171.00	3484.85	2439.98	1733.76	59.965	241.00	4911.64	3405.52	2406.02	64.676
172.00	3505.24	2453.06	1742.70	60.041	242.00 243.00	4932.01 4952.38	3419.52	2415.89	64.734
173.00	3525.63	2466.16	1751.66	60.117 60.193	244.00	4972.74	3433.53	2425.77	64.791
174.00	3546.02	2479.27	1760.65 1769.65	60.268	245.00	4993.10	3447.54	2435.66	64.849
175.00	3566.42 3586.81	2492•41 2505•56	1778.67	60.343	246.00	5013.46	3461.56	2445.56	64.906
176.00 177.00	3607.20	2518.73	1787.70	60.417	247.00	5033.81	3475.59	2455.46	64.963
178.00	3627.59	2531.92	1796.76	60.492	248.00	5054.16	3489.62	2465.37	65.019
179.00	3647.98	2545.12	1805.83	60.566	249.00	5074.50	3503.66	2475.29	65.076
189.00	3668.37	2558.35	1814.92	60.639	250.00	5094.84	3517.70	2485.21	65.132
10,400	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200000	•						
181.00	3688.76	2571.59	1824.03	60.713	251.00	5115.18	3531.75	2495.14	65.188
182.00	3709.15	2584.84	1833.16	60.786	252.00	5135.51	3545.80	2505•07	65.244
183.00	3729.53	2598.12	1842.30	60.859	253.00	5155.84	3559.86	2515.01	65+300
184.00	3749.92	2611.41	1851.46	60,931	254.00	5176.16	3573.93	2524.96	65.356
185.00	3770.31	2624.72	1860.64	61.003	255.00	5196.48	3587.99	2534.91	65.411
186.00	3790.70	2638.04	1869.83	61.075	256.00	5216.80		2544.87	65.466
197.00	3811.08	2651.39	1879.04	61.146	257.00	5237.11		2554.83	65.521
188.00	3831.47	2664.74	1888.27	61.218	258.00	5257.42		2564 • 80	- .
189.00	3851.86	2678.12	1897.51	61.289	259.00	5277.73			65.630
190.00	3872.24	2691.50	1906.77	61.359	260.00	5298.03	3658.42	2584•76	65.685
					261 00	E210 24	2472.62	2594.75	65.739
191.00	3892.63	2704.91	1916.04	61.430	261.00	5318.34	_		
192.00	3913.02	2718.33	1925.33	61.500	262.00	5338.64			
193.00	3933.40	2731.76	1934.63	61.570	263.00 264.00	5358.93 5379.23			
194.00	3953.79	2745.21	1943.95	61.639 61.709	265+00	5399.53		2634.76	
195.00	3974.17	2758.68	1953.28 1962.63	61.777	266.00	5419.83			
196.00	3994.56 4014.94	2772•15 2785•65	1972.00	61.846	267.00	5440.12			
197.00 198.00	4035.33	2799.16	1981.37	61.915	268.00	5460.42			
199.00	4055.71	2812.68	1990.76	61.983	269.00	5480.72			
200.00	4076.09	2826.21	2000.17	62.051	270.00	5501.02	- :		66.219
200400	***********		-0000-						
201.00	4096.47	2839.76	2009.59	62.118	271.00	5521.33	3813.86	2694.95	66-271
202.00	4116.85	2853.32	2019.02	62.185	272.00	5541.63	3828.03		
203.00	4137.22	2866.89	2028.46	62.253	273.00	5561.94	3842.21	2715.07	
204.00	4157.60	2880.48	2037.92	62.319	274.00	5582.26			
205.00	4177.97	2894.08	2047.39	62,386	275.00	5602.58	-		
206.00	4198.35	2907.69	2056.88	62.452	276.00	5622.91			
207.00	4218.72	2921.32	2066.37	62.518	277.00	5643.24			
208.00	4239.10	2934.96	2075.89	62.584	278.00	5663.58			
209.00	4259.47	2948.61	2085.41	62.649	279.00	5683.92			
210.00	4279.85	2962.28	2094.95	62.714	280.00	5704.28	3941.67	2785.66	. 500133
211 00	4200 22	2975.95	2104.49	62.779	281.00	5724.64	3955.91	2795.77	66.786
211.00	4300-23	_		62.844	282.00	5745.01			
212.00	4320-60	2989.64 3003.35	2114.06 2123.63	62.908	283.00	5765.39			
213.00	4340.98 4361.35	3017.06	2133.21	62.973	284.00	5785.78			
214.00		3030.79	2142.81	63.037	285.00	5806.18			
215.00 216.00	4381.73 4402.11	3044.53	2152.42	63.100	286.00	5826.59			
217.00	4422.48	3059.28	2162.04	63.164	287.00	5847.00			
218.00	4442.86	3072.04	2171.68	63.227	288.00	5867.43			
219.00	4463.24	3085.82	2181.32	63.290	289.00	5887.87			67.186
220.00	4483.62	3099.60	2190.98	63.353	290.00	5908.31			
				_	· -				
221.00	4504.00	3113.40	2200.64	63.415	291.00	5928.77			
222.00	4524.38	3127.21	2210.32	63.477	292.00	5949.23			
223.00	4544.75	3141.03	2220.01	63.540	293.00	5969.70			
224.00	4565.13	3154.86	2229.71	63.601	294.00	5990 • 18			
225.00	4585.52	3168.70	2239.42	63.663	295.00	6010.66			
226.00	4605.90	3182.55	2249.15	63.724	296.00	6031.1			
227.00	4626.28	3196.42	2258.88	63.785	297.00	6051.65			
228.00	4646.66	3210.29	2268.62	63.846	298.00	6072-14			
229.00	4667.04	3224.17	2278.37	63.907	299.00	6092.64			
230.00	4687.42	3238.06	2288.13	63.967	300.00	6113.14	4227.85	2989•00	, 010141

3.0	U AIMUSENE	RE ISODAR							
TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER-	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)
***	100,041		(3/64)		(K)	(CC/GM)		(J/GM)	
					91.00	1232.47	1470.22	1095.57	50.710
					92.00	1246.20	1481.30	1102.47	50.831
24.740	271.53	722 00	450 57		93.00	1259.93	1492.40	1109.40	50.951
25.00	276.41	733.08 736.68	650.57 652.66	35.932	94.00	1273.66	1503.52	1116.35	51.070
26.00	294.91	750.52	660.87	36.079 36.620	95.00 96.00	1287-38	1514.67	1123.33	51.188
27.00	312.77	763.98	668.90	37.128	97.00	1301.10 1314.82	1525.85 1537.05	1130.33 1137.36	51.305 51.422
28.00	330.07	776.91	676.57	37,599	98.00	1328.53	1548.27	1144.42	51.537
29.00	346.89	789.53	684.08	38.041	99.00	1342.25	1559.53	1151.51	51.651
30.00	363.35	801.92	691.46	38.460	100.00	1355.95	1570.81	1158.62	51.765
31.00	379.53	814.12	698.74	38.860	101.00	1369.66	1582.11	1165.76	51.877
32.00	395.48	826.14	705.92	39.242	102.00	1383.35	1593.45	1172.93	51.989
33.00 34.00	411.21	838.01	713.01	39.607	103.00	1397.05	1604.80	1180.12	52.100
35.00	426.74 442.10	849.75 861.38	720.02 726.98	39.955	104.00	1410.74	1616.19	1187.35	52.210
36.00	457.33	872.92	733.89	40.290 40.615	105.00 106.00	1424.43	1627.60	1194-60	52.319
37.00	472.43	884.37	740.76	40.928	107.00	1438.12 1451.80	1639.05 1650.51	1201.88 1209.19	52.428
38.00	487.43	895.74	747.56	41.233	108.00	1465.48	1662.01	1216.52	52•535 52•642
39.00	502.33	906.98	754.28	41.526	109.00	1479.16	1673.53	1223.89	52.748
40.00	517.14	918.13	760.93	41.810	110.00	1492.84	1685.08	1231.28	52.853
41.00	531.87	929.20	767.52	42.084	111.00	1506.51	1696.66	1238.70	52.958
42.00	546.53	940.20	774.07	42,351	112.00	1520.19	1708.27	1246.15	53.061
43.00	561.13	951.20	780.62	42.610	113.00	1533.86	1719.90	1253.62	53-164
44.00	575.67	962.18	787.18	42.864	114.00	1547.53	1731.56	1261.13	53.267
45.00 46.00	590.16 604.61	973.15	793.75	43.110	115.00	1561.20	1743.25	1268.66	53.368
47.00	619.00	984.10 995.02	800.32 806.86	43.351 43.586	116.00	1574.87	1754.97	1276.22	53.469
48.00	633.35	1005.90	813.38	43.814	117.00 118.00	1588.53	1766.71	1283.82	53.570
49.00	647.66	1016.76	819.88	44.037	119.00	1602.20 1615.87	1778.49 1790.29	1291.43 1299.08	53•669 53•768
50.00	661.94	1027.58	826.36	44.254	120.00	1629.53	1802.11	1306.76	53.866
51.00	676.18	1038.39	832.84	44.467	121.00	1643.20	1813.97	1314.46	53.964
52.00	690.39	1049.18	839.30	44.676	122.00	1656.86	1825.85	1322.19	54.061
53.00	704.57	1059.95	845.76	44.880	123.00	1670.52	1837.76	1329.95	54.158
54.00	718.72	1070.70	852.21	45.081	124.00	1684.19	1849.70	1337.74	54.254
55.00	732.85	1081.44	858.65	45.277	125.00	1697.85	1861.67	1345.55	54.350
56.00 57.00	746.96 761.05	1092.16	865.08	45.471	126.00	1711-50	1873.67	1353.40	54 • 445
58.00	775.12	1102.88 1113.58	871.52 877.95	45.661 45.849	127.00 128.00	1725.14	1885.70	1361.28	54.540
59.00	789.18	1124.28	884.38	46.033	129.00	1738.79 1752.43	1897.75 1909.83	1369•18 1377•12	54 • 634
60.00	803.22	1134.98	890.82	46.214	130.00	1766.08	1921.94	1385.08	54.728 54.822
61.00	817.23	1145.67	897.25	46.391	131.00	1779.72	1024 08	1202 07	54 035
62.00	831.22	1156.36	903.68	46.565	132.00	1793.36	1934.08 1946.24	1393.07 1401.08	54•915 55•008
63.00	845.20	1167.05	910.13	46.737	133.00	1807.00	1958.43	1409.13	55.100
64.00	859.16	1177.74	916.57	46.905	134.00	1820.63	1970.65	1417.20	55.192
65.00	873.11	1188.44	923.03	47.071	135.00	1834.27	1982.89	1425.29	55.283
66.00	887.04	1199.14	929.50	47.234	136.00	1847.91	1995.16	1433.42	55.374
67.00 68.00	900.96 914.88	1209.85	935.97	47.394	137.00	1861.54	2007.46	1441.57	55.464
69.00	928.78	1220.56 1231.28	942•46 948•95	47.552 47.708	138.00	1875.18	2019.78	1449.75	55.554
70.00	942.67	1242.01	955.46	47.862	139.00 140.00	1888.81 1902.45	2032•13 2044•51	1457.95 1466.18	55•644 55•733
71.00	956.54	1252.74	961.97	48.014	141.00	1916.08	2056•91	1474.44	55.822
72.00	970.40	1263.48	968.50	48,164	142.00	1929.71	2069.33	1482.72	55.910
73.00 74.00	¹84•26	1274.23	975.03	48.312	143.00	1943.35	2081.79	1491.03	55.998
75.00	998.11 1011.94	1284 . 99 1295 . 77	981.59 988.15	48.458	144.00	1956.98	2094.26	1499.36	56.086
76.00	1025.78	1306.55	994.73	48.603 48.746	145.00 146.00	1970.61	2106.76	1507.72	56.173
77-00	1039.60	1317.34	1001.32	48.887	147.00	1984.24 1997.87	2119.29 2131.84	1516.11 1524.51	56•260 56•346
78.00	1053.42	1328.15	1007.93	49.027	148.00	2011.50	2144.41	1532.94	56.432
79.00	1067.23	1338.97	1014.55	49.165	149.00	2025.13	2157.01	1541.40	56.517
80.00	1081.04	1349.81	1021.19	49.301	150.00	2038.76	2169.63	1549.88	56.602
81.00	1094.83	1360.66	1027.85	49.436	151.00	2052.38	2182.27	1558.38	56.687
82.00	1108.62	1371.53	1034.53	49.569	152.00	2066.00	2194.94	1566.91	56.771
83•00 84•00	1122.40 1136.17	1382.42	1041.23	49.701	153.00	2079.62	2207.63	1575.45	56.854
85.00	1149.94	1393.32 1404.25	1047.94 1054.68	49.832	154.00	2093.24	2220.34	1584.02	56.937
86.00	1163.71	1415.19	1054.66	49.961 50.089	155.00	2106.86	2233.07	1592.62	57•020 57 103
87.00	1177.47	1426.15	1068.22	50.215	156.00 157.00	2120•48 2134•10	2245•83 2258•61	1601 • 23	57•102 57 184
88.00	1191.23	1437.14	1075.02	50.341	158.00	2147.72	2271.41	1609.87 1618.53	57•184 57•265
89.00	1204.98	1448.14	1081.85	50.465	159.00	2161.34	2284.23	1627.21	57.346
90.00	1218.73	1459.17	1088.70	50.588	160.00	2174.96	2297.07	1635.92	57.427

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
161.00	2188.57	2309.94	1644.64	57.507	231.00	3140.61	3252.13	2297.44	62.353
162.00	2202.19	2322.82	1653.39	57.587	232.00	3154.21	3266.06	2307.23	62.413
163.00	2215.81	2335.73	1662.16	57.666	233.00	3167.81	3279.99	2317.02	62.473
164.00	2229.42	2348.66	1670.94	57.745	234.00	3181.41	3293.93	2326.83	62.533
165.00	2243.04	2361.60	1679.75	57.824	235.00	3195.01	3307.88	2336.64	62.592
166.00	2256.66	2374.57	1688.58	57.902	236.00	3208.60	3321.83	2346.47	62.651
167.00	2270.27	2387.56	1697.43	57.980	237.00	3222.20	3335.80	2356.30	62.710
168.00	2283.89	2400.57	1706.30	58.058	238.00	3235.79	3349.77	2366.14	62.769
169.00	2297.50	2413.59	1715.19	58.135	239.00	3249.38	3363.75	2375.99	62.828
170.00	2311.12	2426.64	1724.10	58.212	240.00	3262.97	3377.74	2385.84	62.886
- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
171.00	2324.73	2439.71	1733.03	58,288	241.00	3276.56	3391.73	2395.70	62.944
172.00	2338.34	2452.79	1741.98	58.365	242.00	3290.15	3405.73	2405.57	63.002
173.00	2351.95	2465.90	1750.95	58,441	243.00	3303.73	3419.74	2415.45	63.060
174.00	2365.56	2479.02	1759.94	58.516	244.00	3317.31	3433.75	2425.34	63.117
175.00	2379.16	2492.17	1768.94	58,592	245.00	3330.89	3447.77	2435.23	63.175
176.00	2392.77	2505.33	1777.97	58.667	246.00	3344.47	3461.79	2445.13	63.232
177.00	240ö•33	2518.51	1787.01	58.741	247.00	3358.04	3475.82	2455.03	63.289
178.00	2419.98	2531.70	1796.07	58.816	248.00	3371.61	3489.86	2464.95	63.345
179.00	2433.59	2544.92	1805.15	58.890	249.00	3385.18	3503.90	2474.86	63.402
180.00	2447.19	2558.15	1814.24	58.963	250.00	3398.75	3517.95	2484.79	63.458
181.00	2460.80	2571.40	1823.36	59.037	251.00	3412.31	3532.00	2494.72	63.514
182.00	2474.40	2584.67	1832.49	59.110	252.00	3425.87	3546.06	2504.66	63.570
183.00	2488.01	2597.95	1841.64	59.183	253.00	3439.43	3560.12	2514.60	63.626
184.00	2501.61	2611.25	1850.80	59.255	254.00	3452.99	3574.19	2524.55	63.682
185.00	2515.21	2624.57	1859.99	59.327	255.00	3466.54	3588.27	2534.51	63.737
186.00	2528.82	2637.90	1869.18	59.399	256.00	3480.09	3602.35	2544.47	63.792
187.00	2542.42	2651.25	1878.40	59.471	257.00	3493.64	3616.43	2554.44	63.847
188.00	2556.02	2664.62	1887.63	59.542	258.00	3507.19	3630.52	2564.41	63.902
189.00	2569.62	2678.00	1896.88	59.613	259.00	3520.73	3644.61	2574.39	63.957
190.00	2583.22	2691.40	1906.14	59.684	260.00	3534.27	3658.72	2584.37	64.011
191.00	2596.82	2704.81	1915.42	59.754	261.00	3547.81	3672.82	2594.37	64.065
192.00	2610.42	2718.24	1924.71	59.824	262.00	3561.35	3686.93	2604.36	64.119
193.00	2624.02	2731.68	1934.02	59.894	263.00	3574.89	3701.05	2614.36	64.173
194.00	2637.62	2745.14	1943.34	59.964	264.00	3588.43	3715.17	2624.37	64.227
195.00	2651.22	2758.61	1952.68	60.033	265.00	3601.97	3729.30	2634.39	64.280
196.00	2664.82	2772.10	1962.04	60.102	266.00	3615.51	3743.44	2644.41	64.334
197.00	2678.42	2785.60	1971.40	60.171	267.00	3629.04	3757.58	2654.43	64.387
198.00	2692.02	2799.11	1980.79	60.239	268.00	3642.58	3771.73	2664.47	64.440
199.00	2705.62	2812.64	1990.18	60.307	269.00	3656.12	3785.88	2674.50	64.493
200.00	2719.22	2826.19	1999.59	60.375	270.00	3669.66	3800.04	2684.55	64.545
						_			
201.00	2732.81	2839.74	2009.01	60.443	271.00	3683.20	3814.21	2694.60	64.598
202.00	2746•40	2853.31	2018•45	60.510	272.00	3696 • 75	3828.39	2704.65	64•650
203.00	2760.00	2866.89	2027.90	60.577	273.00	3710.29	3842.57	2714.72	64.702
204.00	2773.59	2880•48	2037.36	60.644	274.00	3723.84	3856•76	2724.79	64.754
205.00	2787.18	2894.09	2046.84	60.711	275.00	3737.40	3870.95	2734.86	64.806
206.00	2800.77	2907.71	2056.33	60.777	276.00	3750.95	3885.16	2744.94	64.857
207.00	2814.37	2921.34	2065.83	60.843	277.00	3764.51	3899.37	2755.03	64.909
208.00	2827.96	2934.99	2075.34	60.909	278.00	3778.08	3913.59	2765.12	64.960
209.00	2841.55	2948.65	2084.87	60.974	279.00	3791.64	3927.82	2775.22	65.011
210.00	2855.14	2962.32	2094.41	61.039	280.00	3805.22	3942.05	2785.33	65.062
212 66	2010 71	2074 54	2100 01		201 60	2010 00	2051 00	2705 **	
211.00	2868.74	2976.00	2103.96	61.104	281.00	3818.80	3956.29	2795.44	65.113
212.00	2882.33	2989.70	2113.53	61.169	282.00	3832.38	3970.55	2805.56	65.163
213.00	2895.92	3003.41	2123.10	61.234	283.00	3845.97		2815.69	65.214
214.00	2909.51	3017-13	2132.69	61.298	284.00	3859.57	3999.07	2825.82	65.264
215.00	2923.11	3030.86	2142.29	61.362	285.00	3873.17	4013.35	2835.96	65.314
216.00	2936.70	3044.61	2151.91	61.426	286.00	3886.78	4027.63	2846.10	65.364
217.00	2950,29	3058.37	2161.53	61.489	287.00	3900.39	4041.92	2856 • 25	65.414
218.00	2963.88	3072.13	2171.17	61.552	288.00	3914.01	4056 • 22	2866.41	65.463
219.00	2977 • 48	3085.91	2180.82	61.615	289.00	3927.64		2876.57	
220.00	2991.07	3099.71	2190•48	61.678	290.00	3941.27	4084.83	2886•74	65.562
221 00	3004.44	2112.51	2200.15	41.741	291.00	2054 . 01	4000-15	2804.01	45.411
221.00	3004.66	3113.51	2200 • 15	61.741		3954.91	4099 • 15	2896.91	65.611
222.00	3018.26	3127.32	2209.83	61.803	292.00	3968.55	4113.48	2907.09	65.660
223.00	3031.85	3141.15	2219.52	61.865	293.00	3982.20		2917.28	65.709
224.00	3045.45	3154.98	2229.22	61.927	294.00	3995.85		2727.46	65.758
225.00	3059.04	3168.83	2238.94	61.988	295.00	4009.50		2937.66	65.806
226.00	3072.64	3182.69	2248.66	62.050	296.00	4023.16	4170.84	2947.86	65.855
227.00	3086.23	3196.56	2258 • 40	62.111	297.00	4036.83	4185.20	2958 • 06	65.903
228,00	3099.82	3210.43	2268.14	62.172	298.00	4050.49		2968 • 27	65.951
229.00	3113.42	3224.32	2277.90	62.233	299.00	4064-16		2978 • 48	65.999
230.00	3127.01	3238.22	2287 .6 6	62.293	300.00	4077.82	4228,28	2988.69	66.047

700	O KIMOSPIE	WE 1200K							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
••••									
					91.00	923.81	1468.42	1093.99	49.506
					92.00	934.15	1479.54	1100.91	49.628
					93.00	944.49	1490.68	1107.86	49.748
					94.00	954.83	1501.84	1114.83	49.868
					95.00	965.16	1513.02	1121.83	49.986
26.130	204.54	732.95	650.03	34.991	96.00	975.49	1524.24	1128.86	50.104
27.00	217.94	746.43	658.10	35.501	97.00	985.81	1535.47	1135.91	50.220
28.00	232.58	761.02	666.75	36.030	98.00	996.13	1546.73	1142.99	50.336
		775.03			99.00				50.451
29.00 30.00	246.57 260.05	788.52	675.09 683.12	36.520 36.978	100.00	1006.45 1016.77	1558.02 1569.33	1150.10 1157.23	50.564
30.00	760403	100472	803412	30.770	100+00	1010011	1203033	113/023	20.004
91.00	279.14	801.67	490.97	27 410	101-00	1027.07	1590.47	1144.20	50.477
31.00	273.14 285.92	814.54	690.97	37.410	101.00	1027.07 1037.38	1580.67	1164.39	50•677 50•789
32.00			698.66	37.818	102.00		1592.04	1171.58	
33.00	298.43	827.14	706.19	38.204	103.00	1047.68	1603.43	1178.79	50.901
34.00	310.73	839.52	713.57	38.572	104.00	1057.98	1614.84	1186.03	51.011
35.00	322.83	851.70	720.85	38.923	105.00	1068.28	1626.29	1193.30	51.120
36.00	334.76	863.73	728.04	39.261	106.00	1078.57	1637.75	1200.60	51.229
37.00	346.55	875.64	735.18	39.588	107.00	1088.87	1649.25	1207.92	51.337
38.00	358.20	887.44	742.26	39.904	108.00	1099.15		1215.27	51.444
39.00	369.75	899.06	749.20	40.207	109.00	1109.44		1222,65	
40.00	381.21	910.56	756.04	40.499	110.00	1119.73	1683.90	1230.06	51.656
						. ·			
41.00	392.59	921.94	762.82	40.781	111.00	1130.01	1695.50	1237.49	
42.00	403.90	933.24	769.53	41.055	112.00	1140.29	1707.13	1244.96	51.864
43.00	415.14	944.51	776.25	41.321	113.00	1150.57	1718.79	1252.45	51.968
44.00	426.31	955.74	782.95	41.580	114.00	1160.85	1730.48	1259.96	52.070
45.00	437,43	966.95	789.65	41.832	115.00	1171.13	1742.19	1267.51	52.172
46.00	448.50	978.12	796.34	42.078	116.00	1181.40	1753.93	1275.08	52.273
47.00	459.52	989.25	803.00	42.317	117.00	1191.68	1765.69	1282.69	52.373
48.00	470.49	1000.33	809.64	42.549	118.00	1201.95	1777.49	1290.31	52.473
49.00	481.42	1011.38	816.25	42.776	119.00	1212.22	1789.31	1297.97	52.572
50.00	492.31	1022.38	822.84	42.997	120.00	1222.50	1801.16	1305.66	52.671
200.70			··						
51.00	503.17	1033.36	829.42	43.213	121.00	1232.77	1813.03	1313.37	52.769
52.00	513.99	1044.31	835.98	43.425	122.00	1243.04	1824.93	1321.11	52.866
53.00	524.78	1055.23	842.52	43.632	123.00	1253.31	1836.86	1328.88	52.963
54.00	535.54	1066.13	849.05	43.835	124.00	1263.58	1848.82	1336.67	
55.00	546.28	1077.01	855.57	44.035	125.00	1273.85		1344.50	53-155
56.00	557.00	1087.86	862.08	44.231	126.00	1284.10		1352.36	53.250
				-	127.00	1294.36	1884.86	1360.24	53.345
57.00	567.70	1098.70 1109.52	868.58 875.08	44.423	128.00	1304.61		1368.16	53.440
58.00	578.39			44.613	129.00		1896.94	1376.10	53.534
59.00	589.06	1120.33	881.57	44.799		1314.87			
60.00	599.72	1131.14	888.06	44.982	130.00	1325.12	1921.16	1384.07	53.628
41 00	(10.24	1141 00	904 65	48 161	111 00	1225 27	1022 21	1202 07	62 721
61.00	610.34	1141.93	894.55	45.161	131.00	1335.37		1392.07	53.721
62.00	620.94	1152.72	901-04	45.336	132.00	1345.62	1945.49	1400.09	53.814
63.00	631.53	1163.51	907.54	45.509	133.00	1355.86	1957.70	1408 • 14	53.906
64.00	642.10	1174.29	914.04	45.679	13*•00	1366.11	1969.93	1416.22	53.998
65.00	652.65	1185.08	920.55	45.846	135.00	1376.35	1982.19	1424.33	54.089
66.00	663-20	1195.87	927.07	46.011	136.00	1386.60		1432.46	
67.00	673.73	1206.66	933.59	46.172	137.00	1396.84	2006.79	1440.62	54.271
68.00	684.25	1217.46	940.13	46.332	138.00	1407.09	2019.13	1448.81	54.361
69.00	694.75	1228.26	946.67	46.489	139.00	1417.33	2031.49	1457.02	54.451
70.00	705.25	1239.07	953.22	46.643	140.00	1427.57	2043.88	1465.26	54.540
<u></u>								. . – . –	<u>.</u>
71.00	715.73	1249.88	959.78	46.796	141.00	1437.81	2056.30	1473.52	54.629
72.00	726.21	1260.69	966.35	46.947	142.00	1448.05	2068.74	1481.81	54.717
73.00	736.67	1271.51	972.93	47.096	143.00	1458.29	2081.20	1490.13	54.806
74.00	747.12	1282.34	979.52	47.244	144.00	1468.53	2093.69	1498.47	54.893
75.00	757.57	1293.17	986.12	47.389	145.00	1478.77	2106.21	1506.84	54.980
76.00	768.01	1304.02	992.73	47.533	146.00	1489.00	2118.74	1515.23	55.067
77.00	778.44	1314.87	999.36	47.675	147.00	1499.24	2131.31	1523.64	55.154
78.00	788.87	1325.74	1006.00	47.815	148.00	1509.48	2143.89	1532.08	55.240
79.00	799.29	1336.62	1012.66	47.954	149.00	1519.71	2156.50	1540.54	55.325
80.00	809.70	1347.51	1019.33	48.092	150.00	1529.95	2169.14	1549.03	55.410
					2.3000				
81.00	820.10	1358.41	1026.02	48.227	151.00	1540.18	2181.79	1557.54	55.495
82.00	830.50	1369.33	1032.72	48.361	152.00	1550.41	2194.47	1566.07	55.579
83.00	840.89	1380.27	1039.45	48.494	153.00	1560.64	2207.17	1574.62	55.662
84.00	851.27	1391.22	1046.19	48.625	154.00	1570.87	2219.89	1583.20	55.745
85.00	861.65	1402.19	1052.96	48.754	155.00	1581.09	2232.64	1591.80	55.828
		1413.18	1059.74	48.883	156.00	1591.32	2245.40	1600.42	55.910
86.00	872.02							1609.06	55.992
87.00	882.39	1424.19	1066.55	49.010	157.00	1601.55	2258 • 19		
68.00	892.75	1435.22	1073.37	49.136	158.00	1611.77	2271.00	1617.73	56.074 54.155
89.00	903.11	1446.26	1080-22	49.260	159.00	1622.00	2283.84	1626.42	56.155
90.00	913.46	1457.33	1087.10	49.384	160.00	1632.22	2296.69	1635.13	56.235

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-II)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
141 00	1443 45	2200 54	1449 86	56.316	221 00	2257 62	2282 20	2204 07	41 146
161.00	1642.45	2309.56 2322.46	1643.86 1652.61	56.396	231.00 232.00	2357.02 2367.22	3252.30 3266.23	2296.97 2306.76	61.165 61.225
162.00 163.00	1652.67 1662.90	2335.38	1661.38	56.475	233.00	2377.43	3280.17	2316.56	61.285
164.00	1673.12	2348.31	1670.17	56.554	234.00	2387.63	3294.11	2326.37	61.344
165.00	1683.34	2361.27	1678.99	56.633	235.00	2397.83	3308.07	2336.19	61.404
166.00	1693.57	2374.25	1687.82	56.711	236.00	2408.03	3322.03	2346.02	61.463
167.00	1703.79	2387.25	1696.68	56.789	237.00	2418.23	3336.00	2355.85	61.522
168.00	1714.01	2400.26	1705.55	56.867	238.00	2428.43	3349.97	2365.69	61.581
169.00	1724.24	2413.30	1714.45	56.944	239.00	2438.63	3363.96	2375.54	61.639
170.00	1734.46	2426.36	1723.36	57.021	240.00	2448.83	3377.95	2385.40	61.698
171.00	1744.68	2439.43	1732.30	57.098	241.00	2459.02	3391.95	2395.27	61.756
172.00	1754.89	2452.53	1741.25	57.174	242.00	2469.22	3405.95	2405.14	61.814
173.00	1765.11	2465.64	1750.22	57.250	243.00	2479.41	3419.96	2415.02	61.871
174.00	1775.33	2478.78	1759.22	57.326	244.00	2489.60	3433.98	2424.91	61.929
175.00	1785.54	2491.93	1768.23	57.401	245.00	2499.79	3448.00	2434.80	61.986
176.00	1795.76	2505.10	1777.26	57.476	246.00	2509.98	3462.03	2444.71	62.043
177.00	1805.97	2518.29	1786.30	57,551	247.00	2520.16	3476.07	2454.62	62.100
178.00	1816.19	2531.49	1795.37	57.625	248.00	2530.35	3490.11	2464.53	62-157
179.00	1826.40	2544.72	1804.45	57.699	249.00	2540.53	3504.16	2474.45	62.214
180.00	1836.61	2557.96	1813.56	57.773	250.00	2550.71	3518.21	2484.38	62.270
181.00	1846.82	2571.22	1822.68	57.846	251.00	2560.89	3532.27	2494.31	62.326
182.00	1857.04	2584.49	1831.81	57,920	252.00	2571.06	3546.33	2504.25	62.382
183.00	1867.25	2597.79	1840.97	57.992	253.00	2581.23	3560.40	2514.20	62.438
184.00	1877.46	2611.10	1850.14	58.065	254.00	2591.41	3574.47	2524.15	62.493
185.00	1887.67	2624.42	1859.32	58,137	255.00	2601.58	3588.55	2534.11	62.549
186.00	1897.88	2637.76	1868.53	58.209	256.00	2611.74	3602.63	2544.08	62-604
187.00	1908.09	2651.12	1877.75	58,281	257.00	2621.91	3616.72	2554.05	62-659
188.00	1918.30	2664.50	1886.98	58,352	258.00	2632.07	3630.82	2564.02	62.714
189.00	1928.51	2677.89	1896.24	58.423	259.00	2642.24	3644.92	2574.01	62.768
190.00	1938.72	2691.29	1905.50	58.494	260.00	2652.40	3659.02	2583.99	62.823
	1,,,,,,		1,0000			2020010			•=••=
191.00	1948.93	2704.71	1914.79	58.564	261.00	2662.56	3673.13	2593.99	62.877
192.00	1959.13	2718.15	1924.09	58.634	262.00	2672.72	3687.25	2603.99	62.931
193.00	1969.34	2731.60	1933.40	58.704	263.00	2682.88	3701.37	2613.99	62.985
194.00	1979.55	2745.07	1942.73	58.774	264.00	2693.03	3715.50	2624.00	63.039
195.00	1989.76	2758.55	1952.07	58.843	265.00	2703.19	3729.63	2634.02	63.092
196.00	1999.96	2772.04	1961.43	58.912	266.00	2713.35	3743.77	2644.04	63.146
197.00	2010.17	2785.55	1970.80	58.981	267.00	2723.51	3757.92	2654.07	63.199
198.00	2020.38	2799.07	1980.19	59.050	268.00	2733.66	3772.07	2664.11	63.252
199.00	2030-58	2812.61	1989.59	59.118	269.00	2743.82	3786.23	2674.15	63.305
200.00	2040.79	2826.16	1999.01	59.186	270.00	2753.98	3800 • 40	2684.19	63.357
200400	2040417	2020010	1,,,,	376100	2.000	2133670	3000040	2004417	050557
201.00	2050.99	2839.72	2008.43	59.253	271.00	2764.14	3814.57	2694.25	63.410
202.00	2061.19	2853.30	2017.87	59.321	272.00	2774.30	3828.75	2704.31	63.462
203.00	2071.39	2866.89	2027.33	59.388	273.00	2784.47	3842.93	2714.37	63.514
204.00	2081.59	2880.49	2036.79	59.455	274.00	2794.63	3857.13	2724.44	63.566
205.00	2091.80	2894.10	2046.27	59.521	275.00	2804.80	3871.33	2734.52	63.618
206.00	2102.00	2907.73	2055.77	59.588	276.00	2814.97	3885.53	2744.60	63.669
207.00	2112.20	2921.37	2065.27	59.654	277.00	2825.14	3899.75	2754.69	63.721
208.00	2122.40	2935.02	2074.79	59.719	278.00	2835.32	3913.97	2764.79	63.772
209.00	2132.60	2948.69	2084.32	59.785	279.00	2845.50	3928.20	2774.89	63.823
210.00	2142.80	2962.37	2093.87	59.850	280.00	2855.68	3942.44	2785.00	63.874
			_ 3 . + • • •		3000				
211.00	2153.00	2976.06	2103.42	59.915	281.00	2865.87	3956.69	2795.12	63.925
212.00	2163.20	2989.76	2112.99	59.980	282.00	2876.06	3970.94	2805.24	63.975
213.00	2173.40	3003.48	2122.57	60.044	283.00	2886.25	3985.20	2815.36	64.026
214.00	2183.60	3017.20	2132.17	60.109	284.00	2896.45	3999.47	2825.50	64.076
215.00	2193.80	3030.94	2141.77	60.173	285.00	2906.66	4013.75	2835.64	64.126
216.00	2204.00	3044.69	2151.39	60.237	286.00	2916.86	4028.03	2345.78	64.176
217.00	2214.20	3058.46	2161.02	60.300	287.00	2927.08	4042.33	2855.93	64.226
218.00	2224.40	3072.23	2170.66	60.363	288.00	2937.29	4056.63	2866.09	64.276
219.00	2734.60	3086.02	2180.31	60.426	289.00	2947.51	4070.93	2876.26	64.325
220.00	2244.80	3099.82	2189.97	60.489	290.00	2957.74	4085.25	2886.43	64.374
		2077802		404407	2,000	-///	.007627		U-4-21-4
221.00	2255.00	3113.62	2199.65	60.552	291.00	2967.97	4099.57	2896.60	64.424
222.00	2265.20	3127.44	2209.33	60.614	292.00	2978.20	4113.90	2906.78	64.473
223.00	2275.40	3141.27	2219.03	60.676	293.00	2988.44	4128.23	2916.97	64.521
224.00	2285.61	3155.12	2228.73	60.738	294.00	2998.68	4142.57	2927.16	64.570
225.00	2295.81	3168.97	2238.45	60.800	295.00	3008.92	4156.91	2937.35	64.619
226.00	2306.01	3182.83	2248.18	60.861	296.00	3019.17	4171.26	2947.55	64.667
227.00	2316.21	3196.70	2257.92	60.922	297.00	3029.41	4185.62	2957.75	64.715
228.00	2326.41	3210.59	2267.67	60.983	298.00	3039.66	4199.98	2967.96	64.764
229.00	2336.61	3224.48	2277.42	61.044	299.00	3049.91	4214.34	2978.17	64.812
230.00	2346.81	3238.38	2287.19	61.104	300.00	3060 • 16	4228.71	2988.39	64.859
	23.0001				20000				

300	O AIROSPIN	AC 1000AK							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					,			(3/0/1)	
					91.00	738.64	1466.63	1092.41	48.569
					92.00	745.94	1477.79	1099.36	48.691
					93.00	755.24	1488.96	1106.33	48.811
					94.00	763.54	1500.16	1113.32	48.931
					95.00	771.84	1511.39		
					96.00	780.13		1120.34	49.050
27.290	162.68	730.48	648.06	34.208			1522.63	1127.39	49.168
28.00	172.36	742.49	655.13		97.00	788.42	1533.90	1134.46	49.285
29.00	185.14	758.60		34.644	98.00	796.70	1545.20	1141.56	49.401
30.00	197.16	773.80	664.80	35.208	99.00	804.98	1556.52	1148.69	49.516
30.00	191010	773400	673.90	35.723	100.00	813.26	1567.87	1155.84	49.630
31.00	208.61	700 20	482 50	24 107	141 44				
		788.28	682.59	36.197	101.00	821.54	1579.24	1163.02	49.744
32.00	219.64	802.13	690.85	36.637	102.00	829.81	1590.63	1170.22	49.856
33.00	230.34	815.56	698.86	37.050	103.00	838.07	1602.05	1177.45	49.967
34.00	240.77	828.69	706.70	37.440	104.00	846.34	1613.50	1184.71	50.078
35.00	250.99	841.57	714.42	37.812	105.00	854.60	1624.97	1191.99	50.188
36.00	261.00	854.23	722.00	38,167	106.00	862.86	1636.46	1199.31	50.297
37.00	270.83	866.66	729.45	38.508	107.00	871.11	1647.99	1206.65	50.405
38.00	280.52	878.89	736.76	38.834	108.00	879.36	1659.54	1214.01	50.512
39.00	290.07	890.92	743.95	39.148	109.00	887.62	1671.11	1221.41	50.619
40.00	299.54	902.78	751.01	39.450	110.00	895.87	1682,71	1228.83	50.724
					,				
41.00	308.93	914.51	757.98	39.741	111.00	904.11	1694.34	1236.28	50.829
42.00	318.26	926.13	764.89	40.022	112.00	912.36	1706.00	1243.75	50.933
43.00	327.49	937.69	771.77	40.295	113.00	920.60	1717.68	1251.26	51.037
44.00	336.65	949.19	778.62	40.560	114.00	928.84	1729.39	1258.79	51.140
45.00	345.76	960.65	785.47	40.818	115.00	937.09	1741.12	1266.35	
46.00	354.81	972.07	792.31	41.069	116.00	945.33	1752.88	1273.93	51.242
47.00	363.80	983.42	799.10	41.313	117.00	953.57	1764.67		51.343
48.00	372.75	994.71	805.86	41.550	118.00	961.81	1776.48	1281.54	51.444
49.00	381.66	1005.95	812.58	41.780	119.00			1289.19	51.543
50.00	390.53	1017.13	819.27	42.005	120.00	970•04 978•28	1788.33	1296 • 85	51.643
			01741	428003	12000	910120	1800.19	1304.55	51.741
51.00	399.36	1028.29	825.95	42.225	121.00	986.52	1812.09	1312.27	E1 040
52.00	408.15	1039.40	832.60	42.440	122.00	994.75			51.840
53.00	416.91	1050.47	839.24	42.650	123.00		1824.01	1320.02	51.937
54.00	425.65	1061.51	845.85	42.856		1002.99	1835.96	1327.80	52.034
55.00	434.35	1072.53	852.45		124.00	1011.22	1847.94	1335.61	52.130
56.00	443.04			43.058	125.00	1019.46	1859.	1343.44	52.226
57.00		1083.51	859.03	43.257	126.00	1027.68	1871	1351.31	52.322
	451.71	1094.48	865.61	43.451	127.00	1035.90	1884.6	1359.21	52.417
58.00	460.37	1105.43	872.17	43.643	128.00	1044.12	1896.1.	1367.13	52.511
59.00	469.01	1116.36	878.74	43.831	129.00	1052.34	1908.2	1375.08	52.606
60.00	477.63	1127.28	885.29	44.015	130.00	1060.55	1920.0	1383.06	52.699
61.00	494 22	1120 10	901 05	44 104	121 00				
	486.22	1138.18	891.85	44.196	131.00	1068.77	1932.55	1391.07	52.793
62.00	494.78	1149.08	898.40	44.373	132.00	1076.98	1944.75	1399.10	52.886
63.00	503.33	1159.97	904.96	44.548	133.00	1085.19	1956.97	1407.16	52.978
64.00	511.87	1170.85	911.52	44.719	134.00	1093•40	1969.22	1415.25	53.070
65.00	520.39	1181.73	918.08	44.888	135.00	1101.61	1981.49	1423.36	53.162
66.00	528.90	1192.62	924.65	45.053	136.00	1109.82	1993.79	1431.51	53.253
67.00	537.40	1203.50	931.23	45.216	137.00	1118.03	2006.12	1439.67	53.343
68.00	545.88	1214.38	937.81	45.377	138.00	1126.24	2018.47	1447.87	53.434
69.00	554.36	1225.26	944.41	45.535	139.00	1134.45	2030.85	1456.09	53.524
70+00	562.82	1236.15	951.01	45.691	140.00	1142.65	2043.26	1464.34	53.613
71.00	571.27	1247.03	957.61	45.845	141.00	1150.86	2055.69	1472.61	53.702
72.00	579.70	1257.92	964.21	45.997	142.00	1159.06	2068.14	1480.91	53.791
73.00	588.13	1268.80	970.83	46.147	143.00	1167.27	2080.62	1489.23	53.879
74.00	596.55	1279.69	977.46	46.295	144.00	1175.47	2093.12	1497.58	53.967
75.00	604.96	1290.59	984.09	46.442	145.00	1183.67	2105.65	1505.95	54.054
76.00	613.36	1301.50	990.74	46.586	146.00	1191.87	2118.20	1514.35	54.141
77.00	621.76	1312.41	997.40	46.729	147.00	1200.07	2130.78	1522.77	54.227
78.00	630.15	1323.33	1004.07	46.871	148.00	1208.27	2143.38	1531.22	54.313
79.00	638.54	1334.26	1010.75	47.010	149.00	1216.47	2156.00	1539.69	54.399
80.00	646.92	1345.21	1017.45	47.148	150.00	1224.67	2168.65	1548.18	54.484
				· -	2.0400			*> 42 4 7 0	J-70-704
81.00	655.28	1356.16	1024.17	47.284	151.00	1232.87	2181.31	1556.69	54.569
82.00	663.64	1367.14	1030.91	47.419	152.00	1241.06	2194.00	1565.23	54.653
83.00	671.99	1378.12	1037.66	47.552	153.00	1249.25	2205.72	1573.79	54.736
84.00	680.34	1389.12	1044.43	47.684	154.00	1257.45	2219.45	1582.38	
85.00	688.68	1400.14	1051.22	47.814	155.00	1265.64	2232.21		54 • 820 54 • 803
86.00	697.02	1411.17	1058.03	47.943	156.00	1273.83		1590.98	54.902
87.00	705.35	1422.23	1064.86	48.070	157.00		2244.99	1599.61	54.985
88.00	713.68	1433.30	1071.72	48.197	158.00	1282.02	2257.79	1608.26	55.067
89.00	722.00	1444.39	1078.59			1290 • 21	2270.61	1616.93	55.148
90.00	730.32	1455.50	1085.49	48.322	159.00	1298.40	2283.45	1625.63	55.229
,00,00	170074	147700	1003047	48.446	160.00	1306.59	2296.32	1534.34	55.310

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
161.00	1314.78	2309.20	1643.08	55,391	231.00	1886.86	3252.47	2296.51	60.242
162.00	1322.97	2322.11	1651.84	55.470	232.00	1895.03	3266.40	2306.30	60.302
163.00	1331.16	2335.03	1660.61	55.550	233.00	1903.20	3280.34	2316.11	60.362
164.00	1339.34	2347.98	1669.41	55.629	234.00	1911.36	3294.29	2325.92	60.422
165.00	1347.53	2360.95	1678.23	55.708	235.00	1919.53	3308.25	2335.74	60.481
166.00	1355.72	2373.94	1687.07	55.786	236.00	1927.69	3322.22	2345.57	60.541
167.00	1363.91	2386.94	1695.93	55.864	237.00	1935.86	3336.19	2355.41	60.600
168.00	1372.09	2399.97	1704.81	55.942	238.00	1944.02	3350.17	2365.25	60.658
169.00	1380.28	2413.02	1713.71	56.019	239.00	1952.18	3364.16	2375.11	60.717
170.00	1388.46	2426.08	1722.63	56.096	240.00	1960.35	3378.16	2384.97	60.775
171 00	1204 45	2420 17	1731.57	56 172	241 00	1968.51	3392.16	2394.84	60.834
171.00 172.00	1396.65 1404.83	2439.17 2452.28	1740.53	56.173 56.249	241.00 242.00	1976.66	3406.17	2404.71	60.892
173.00	1413.01	2465.40	1749.51	56.326	243.00	1984.82	3420.19	2414.60	60.949
174.00	1421.19	2478.54	1758.51	56.401	244.00	1992.98	3434.21	2424.49	61.007
175-20	1429.37	2491.70	1767.53	56.477	245.00	2001.13	3448.24	2434.39	61.064
176.00	1437.55	2504.88	1776.56	56.552	246.00	2009.29	3462.28	2444.29	61.121
177.00	1445.73	2518.08	1785.61	56.626	247.00	2017.44	3476.32	2454.20	61.178
178.00	1453.91	2531.30	1794.68	56.701	248.00	2025.59	3490.36	2464.12	61.235
179.00	1462.09	2544.53	1803.77	56.775	249.00	2033.74	3504.41	2474.05	61.292
180.00	1470.26	2557.78	1812.88	56.849	250.00	2041.88	3518.47	2483.98	61.348
		• -							
181.00	1478.44	2571.05	1822.01	56.922	251.00	2050.03	3532.53	2493.92	61.404
182.00	1486.62	2584.33	1831.15	56.996	252.00	2058.17	3546.60	2503.86	61.460
183.00	1494.79	2597.63	1840.31	57.068	253.00	2066.31	3560.68	2513.81	61.516
184.00	1502.97	2610.95	1849.48	57.141	254.00	2074.46	3574.75	2523.76	61.572
185.00	1511.14	2624.28	1858.67	57.213	255.00	2082.59	3588.84	2533 .73	61.627
186.00	1519.32	2637.63	1867.88	57.285	256.00	2090.73	3602.93	2543.69	61.682
187.00	1527.49	2651.00	1877.11	57.357	257.00	2098.87	3617.02	2553.67	61.737
188.00	1535.67	2664.38	1886.35	57.428	258.00	2107.00	3631.12	2563.65	61.792
189.00	1543.84	2677.78	1895.60	57.499	259.00	2115.14	3645.23	2573.63	61.847
190.00	1552.02	2691.19	1904.88	57.570	260.00	2123.27	3659.34	2583.62	61.901
								2522 12	41 000
191.00	1560.19	2704.62	1914.16	57.641	261.00	2131.40	3673.45	2593.62	61.955
192.00	1568.36	2718.07	1923.47	57.711	262.00	2139.53	3687.57	2603.62	62.009
193.00	1576.53	2731.52	1932.79	57.781	263.00	2147.67	3701.70	2613.63	62.063
194.00	1584.71	2745.00	1942.12	57.851	264.00	2155.80	3715.83	2623.64	62.117
195.00	1592.88	2758.49	1951.47	57.920	265.00	2163.92	3729.97	2633.66	62.171
196.00	1601.05	2771.99	1960.83	57.989	266.00	2172.05	3744.11	2643.69	62.224
197.00	1609.22	2785.50	1970.21	58.058	267.00	2180.18	3758.26	2653.72	62.277
198.00	1617.39	2799.03	1979.60	58.126	268.00	2188.31	3772.42	2663.75	62.330
199.00	1625.56	2812.58	1989.01	58.195	269.00	2196.44	3786.58	2673.80	62.383
200.00	1633.73	2826.14	1998.42	58.263	270.00	2204.57	3800.75	2683.85	62.436
201.00	1641.90	2839.71	2007.86	58.330	271.00	2212.71	3814.93	2693.90	62.488
202.00	1650.07	2853.29	2017.30	58,398	272.00	2220.84	3829.11	2703.96	62.540
203.00	1658.24	2866.88	2026.76	58.465	273.00	2228.97	3843.30	2714.03	62.593
204.00	1666.40	2880.49	2036.23	58,532	274.00	2237.11	3857.50	2724.10	62.644
205.00	1674.57	2894.11	2045.71	58,598	275.00	2245.25	3871.70	2734.18	62.696
206.00	1682.73	2907.74	2055.21	58.665	276.00	2253.39	3885.91	2744.27	62.748
207.00	1690.90	2921.39	2064.72	58.731	277.00	2261.53	3900.13	2754.36	62.799
208.00	1699.07	2935.05	2074.24	58.796	278.00	2269.67	3914.36	2764.46	62.851
209.00	1707.23	2948.72	2083.78	58.862	279.00	2277.82	3928.59	2774.56	62.902
210.00	1715.40	2962.41	2093.33	58.927	280.00	2285.97	3942.83	2784.67	62.953
211.00	1723.56	2976.10	2102.89	58.992	281.00	2294.12	3957.08	2794.79	63.003
212.00	1731.73	2989.81	2112.46	59.057	282.00	2302.27	3971.33	2804.91	63.054
213.00	1739.89	3003.5∓	2122.04	59,122	283.00	2310.43	3985.60	2815.04	63.104
214.00	1749.06	3017.27	2131.64	59.186	284.00	2318.59	3999.87	2825.17	63.155
215.00	1756.22	3031.02	2141.25	59.250	285.00	2326.75	4014.15	2835.31	63.205
216.00	1764.39	3044.77	2150.87	59.314	286.00	2334.92	4028.44	2845.46	63.255
217.00	1772.55	3058.54	2160.50	59.377	287.00	2343.09	4042.73	2855.61	63.305
218.00	1780.72	3072.32	2170.15	59.441	288.00	2351.27	4057.03	2865.77	63.354
219.00	1788.88	3086.11	2179.80	59.504	289.00	2359.45		2875.94	63.404
220.00	1797.05	3099.92	2189.47	59,566	290.00	2367.63	4085.66	2886.11	63.453
221.00	1805.21	3113.73	2199.15	59.629	291.00	2375.81	4099.98	2896.28	63.502
222.00	1813.38	3127.56	2208.84	59.691	292.00	2384.00	4114.31	2906.47	63.551
223.00	1821.54	3141.39	2218.53	59.754	293.00	2392.19	4128.64	2916.65	63.600
224.00	1829.71	3155.24	2228.24	59.815	294.00	2400.38	4142.98	2926.84	63.649
225.00	1837.87	3169.10	2237.97	59.877	295.00	2408.58	4157.33	2937.04	63.697
226.00	1846.04	3182.97	2247.70	59.939	296.00	2416.77	4171.68	2947.24	63.746
227.00	1854.20	3196.85	2257.44	60.000	297.00	2424.97	4186.04	2957.45	63.794
228.00	1862.37	3210.73	2267.19	60.061	298.00	2433.17	4200 • 40	2967.65	63.842
229.00	1870.53	3224.63	2276.95	60.121	299.00	2441.37	4214.76	2977.87	63.890
230.00	1878.70	3238.54	2286.72	60.182	300.00	2449.57	4229.13	2988.08	63.938
	20.04.0	2220627			20000			50,00	

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	AOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GH)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					A1 AA				. =
					91.00 92.00	615.20	1464.85	1090.83	47.800
					93.00	622,15 629,09	1476.04	1097.80	47.922
					94.00	636.03	1487.26 1498.50	1104.79	48.043 48.163
					95.00	642.97	1509.76	1118.85	48.283
					96.00	649.90	1521.04	1125.92	48.401
					97.00	656,83	1532.34	1133.01	48.518
28.290	133.77	726.13	644.84	33,514	98.00	663.76	1543.67	1140.13	48.635
29.00	142.65	739.56	652.79	33,982	99.00	670.69	1555.03	1147.27	48.750
30.00	154.20	757.14	663.39	34,579	100.00	677.61	1566.41	1154.44	48.865
31.00 32.00	164.85	773.52	673.31	35.113	101.00	684.53	1577.81	1161.64	48.978
33.00	174.89 184.51	788.64	682.31	35.595	102.00	691.44	1589.23	1168.86	49.091
34.00	193.80	803.11 817.19	690.93 699.36	36.042 36.460	103.00	698.35	1600.68	1176.11	49.203
35.00	202.83	830.92	707.61	36.855	104-00	705.25	1612.16	1183.38	49.314
36.00	211.62	844.31	715.67	37.230	105.00 106.00	712.16 719.06	1623.66 1635.18	1190.68	49.524
37.00	220.19	657,35	723.50	37,587	107.00	725.96	1646.74	1198.01 1205.36	49.533 49.641
38.00	228.59	870.08	731.10	37,927	108.00	732.85	1658.31	1212.75	49.749
39.00	236.84	882.53	738.52	38,252	109.00	739.74	1669.91	1220.15	49.855
40.00	244.99	894.78	745.80	38,564	110.00	746.64	1681.54	1227.59	49.961
				•					******
41.00	253.07	906.88	752.99	38.864	111.00	753.53	1693.19	1235.05	50.067
42.00	261.11	918.87	760.12	39.154	112.00	760.41	1704.87	1242.54	50-171
43.00	269.01	930.72	767.16	39.435	113.00	767.30	1716.58	1250.06	50.275
44.00	276.84	942.51	774.19	39.706	114.00	774.19	1728.31	1257.60	50.378
45.00	284.61	954.25	781.21	39.970	115.00	781.07	1740.07	1265.18	50.480
46.00	292.33	965.94	788.22	40.227	116.00	787.95	1751.85	1272.77	50.581
47.00 48.00	299.98	977.53	795.15	40.476	117.00	794.84	1763.66	1280.40	50.682
49.00	307.58 315.15	989.04 1000.48	802.04	40.717	118.00	801.72	1775.49	1288.05	50.782
50.00	322.68	1011.84	808.88 815.67	40.952 41.181	119.00	808-60	1787.36	1295.73	50-882
20000	322000	1011104	017801	410101	120.00	815.48	1799.24	1303.44	50.980
51.00	330.16	1023.17	822.44	41.404	121.00	822,36	1811.16	1311.18	51.079
52.00	337.60	1034.44	829.19	41.622	122.00	829.24	1823.10	1318.94	51.176
53.00	345.01	1045.67	835.90	41.836	123.00	836.11	1835.07	1326.73	51.273
54.00	352.39	1056.85	842.60	42.045	124.00	842.99	1847.06	1334.55	51.370
55.00	359.74	1068.01	849.28	42.249	125.00	849.87	1859.08	1342.39	51.466
56.00	367.07	1079.13	855.94	42.450	126.00	856.73	1871.13	1350.27	51.561
57.00	374.39	1090.23	862.59	42.647	127.00	863.60	1883.21	1358.17	51.657
58.00	381.69	1101.30	869.23	42.841	128.00	870.46	1895.32	1366.11	51.752
59.00	388.98	1112.36	875.87	43.031	129.00	877.32	1907.45	1374.07	51.846
60.00	396.25	1123.41	882.50	43.217	130.00	884.18	1919.61	1382.05	51.940
61.00	403.48	1134.42	889.12	43 400	121 00		1001 70	100	
62.00	410.69	1145.43	895.74	43.400 43.579	131.00	891.04	1931.79	1390.07	52.033
63.00	417.88	1156.42	902.35	43.755	132.00 133.0g	897.89 904.75	1944.01 1956.24	1398.11	52.126
64.00	425.06	1167.40	908.97	43.928	134.00	911.61	1968.51	1406.18 1414.28	52•219 52•311
65.00	432.23	1178.38	915.59	44.098	135.00	918.46	1980.80	1422.40	52.403
66.00	439.38	1189.35	922.21	44.265	136.00	925.31	1993.11	1430.55	52.494
67.00	446.52	1200.32	928.84	44,429	137.00	932.16	2005.46	1438.73	52.585
68.00	453.65	1211.29	935.48	44,591	138.00	939.01	2017.82	1446.93	52.675
69.00	460.77	1222.25	942.11	44.750	139.00	945.86	2030.22	1455.16	52.765
70.00	467.88	1233.22	948.76	44.907	140.00	952.71	2042.64	1463.41	52.854
71 64	474 47	1244		48					
71.00 72.00	474.97	1244.17	955.40	45.062	141.00	959.56	2055.08	1471.69	52.944
72.00 73.00	482.05 489.12	1255.13	962.05 968.71	45.215	142.00	966.41	2067.55	1480.00	53.032
74.00	496.18	1266.09 1277.05	968.71	45.367	143.00	973.25	2080.04	1488.33	53-121
75.00	503.23	1288.01	975 .38 982.05	45.516 45.663	144.00 145.00	980.10	2092.56	1496.68	53.208
76.00	510.28	1298.98	989-73	45.808	146.00	986.94 993.79	2105.10 2117.66	1505.06 1513.47	53.296
77.00	517.32	1309.95	995.43	45.952	147.00	1000.63	2130.25	1521.90	53.383 53.469
78.00	524.36	1320.93	1002.13	46.094	148.00	1007.48	2142.86	1530.35	53.556
79.00	531.39	1331.92	1008.85	46.234	149.00	1014.32	2155.50	1538.83	53.641
80.00	538.41	1342.91	1015.58	46.373	150.00	1021.16	2168.16	1547.33	53.727
	. -								
81.00	545.42	1353.92	1022.33	46.510	151.00	1028.00	2180.84	1555.85	53.811
82.00	552.42	1364.95	1029.09	46.645	152.00	1034.83	2193.54	1564.39	53.895
83.00	559.41	1375.98	1035.87	46.779	153.00	1041.67	2206.26	1572.96	53.979
84.00	566.40	1387.03	1042.67	46.911	154.00	1048.50	2219.01	1581.55	54.062
85.00 86.00	573.39	1398.10	1049.49	47.042	155.00	1055.34	2231.78	1590.16	54.145
86.00 87.00	580.37	1409.18	1056.33	47.171	156.00	1062.17	2244.57	1598.80	54.228
87.00 88.00	587.34 594.31	1420.27 1431.39	1063.19 1070.06	47.299 47.426	157.00	1069.01	2257.38	1607.45	54.310
89.00	601.28	1442.52	1076.96	47.552	158.00 159.00	1075.84	2270.21 2 28 3.07	1616.13	54.391 54.473
90.00	608.24	1453.68	1083.89	47.676	160.00	1082.67 1089.51	2295.94	1624.83 1633.55	54•473 54•553
- 					1-0400	-00,401			244223

								*******	ENTRARY
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY (J/GM-K)
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY (J/GM)	(3/3/1-1/
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(S/GH/	
141 00	1006 34	2308.84	1642.30	54.634	231.00	1573.43	3252.63	2296.04	59.488
161.00	1096.34 1103.17	2321.76	1651.06	54.714	232.00	1580.24	3266.57	2305.84	59.548
162.00 163.00	1110.00	2334.69	1659.85	54.793	233.00	1587.05	3280.52	2315.65	59.608
164.00	1116.83	2347.65	1668.65	54.873	234.00	1593.85	3294.48	2325.46	59.668
165.00	1123.66	2360-63	1677.48	54,951	235.00	1600.66	3308.44	2335.29	59.727
166.00	1130.49	2373,63	1686.32	55.030	236.00	1607.47	3322.41	2345.12	59.787
167.00	1137.32	2386.65	1695.19	55.108	237.00	1614.28	3336.39	2354.96	59.846
168.00	1144.15	2399.68	1704.08	55.186	238.00	1621.08	3350.38	2364.81	59.905
169.00	1150.98	2412.74	1712.98	55.263	239.00	1627.89	3364.37	2374.67	59.963
170.00	1157.81	2425.82	1721.91	55.340	240.00	1634.69	3378.38	2384.53	60.022
		2400 01	1720 85	55.417	241.00	1641.49	3392.38	2394.41	60.080
171.00	1164.63	2438.91	1730.85 1739.82	55.493	241.00 242.00	1648.29	3406.40	2404.29	60.138
172.00	1171.46	2452.03 2465.16	1748.81	55.569	243.00	1655.10	3420.42	2414.17	60.196
173.00 174.00	1178.28 1185.11	2478.31	1757.81	55.645	244.00	1661.89	3434.45	2424.07	60.253
175.00	1191.93	2491.48	1766.83	55.721	245.00	1668.69	3448.48	2433.97	60.310
176.00	1198.75	2504.67	1775.87	55.796	246.00	1675.49	3462.52	2443.88	60.368
177.00	1205.57	2517.88	1784.93	55,871	247.00	1682.29	3476.57	2453.79	60.425
178.00	1212.39	2531.10	1794.01	55.945	248.00	1689.08	3490.62	2463.71	60.481
179.00	1219.22	2544.35	1803.10	56.019	249.00	1695.87	3504.68	2473.64	60.538
180.00	1226.04	2557,60	1812.21	56.093	250.00	1702.67	3518.74	2483.58	60.594
									40 451
181.00	1232.86	2570.88	1821.34	56.167	251.00	1709.46	3532.81	2493.52	60.651
182.00	1239.68	2584.17	1830.49	56.240	252.00	1716.25	3546.88	2503.46	60.707
183.00	1246.49	2597.48	1839.65	56.313	253.00	1723-04	3560 • 96	2513•42 2523•37	60.762 60.818
184.00	1253.31	2610.81	1848.83	56.385	254.00	1729.82	3575.04 3589.13	2533.34	60.873
185.00	1260-13	2624.15	1858.03	56.458	255.00 256.00	1736.61 1743.39	3603.22	2543.31	60.929
186.00	1266.95	2637.51	1867 . 24 1876.47	56.530 56.602	257.00	1750.18	3617.32	2553.29	60.984
187.00	1273.77 1280.58	2650.89 2664.28	1885.72	56.673	258.00	1756.96	3631.43	2563.27	
188.00 189.00	1287.40	2677.68	1894.98	56.744	259.00	1763.74		2573.26	61-093
190.00	1294.22	2691.10	1904.26	56.815	260.00	1770.52			61.148
170400	1271011								
191.00	1301.03	2704.54	1913.55	56.885	261.00	1777.30		2593.25	
192.00	1307.85	2717.99	1922.86	56.956	262.00	1784.08	3687.90	2603.25	
193.00	1314.67	2731.46	1932.18	57.026	263.00	1790.86		2613.26	
194.00	1321.48	2744.94	1941.52	57.095	264.00	1797.64		2623.28	
195.00	1328.30	2758.43	1950.87	57.165	265.00	1804-41		2633.30	
196.00	1335.11	2771.94	1960.24	57.234	266.00	1811-19		2643.33	61.471 61.524
197.00	1341.93	2785.47	1969.62	57.303	267.00	1817.97		2653+36	
198.00	1348.74	2799.00	1979.01	57.371	268.00	1824-75		2663•40 2673•45	
199.00	1355.55	2812.56	1988-42	57.440	269.00	1831•52 1838•30		2683.50	
200.00	1362.37	2826.12	1997.85	57.508	270.00	1030430	3001011	2003130	011001
201.00	1369.18	2839.70	2007.28	57,575	271.00	1845.08	3815.29	2693.56	61.735
202.00	1375.99	2853.28	2016.73	57.643	272.00	1851.86			
203.00	1382.80	2866.89	2026.19	57.710	273.00	1858.64			61.839
204.00	1389.61	2880.50	2035.67	57.777	274.00	1865.42	3857.87	2723.76	61.891
205.00	1396.42	2894,13	2045.15	57.844	275.00	1872.21			
206.00	1403.23	2907.77	2054.66	57.910	276.00	1878.99			
207.00	1410.04	2921.42	2064.17	57.976	277.00	1885.78	3900.51	2754.03	
208.00	1416.85	2935.09	2073.70	58.042	278.00	1892.57			
209.00	1423.65	2948.77	2083.24	58.107	279.00	1899.36		2774.23	
210.00	1430.46	2962.46	2092.79	58,173	280.00	1906.15	3943.22	2784.34	62.199
211	1497 77	2074 14	2162 28	58 228	281 . 64	1912.95	3957.47	2794.46	62.250
211.00	1437.27	2976.16 2989.87	2102 . 35 2111 . 93	58,238 58,303	281.00 282.00	1912.75			
212.00	1444.08 1450.89	3003.60	2121.52	58.367	283.00	1926.55			
213.00 214.00	1457.70	3017.34	2131.12	58,431	284.00	1933.35			
215.00	1464.50	3031.09	2140.73	58.496	285.00	1940.15			
216.00	1471.31	3044.86	2150.35	58,559	286.00	1946.96			62.502
217.00	1478.12	3058.63	2159.99	58,623	287.00	1953.77	4043.14	2855.30	62.551
218.00	1484.93	3072.42	2169.64	58.686	288.00	1960-58	4057.44		
219.00	1491.74	3086.22	2179.30	58.749	289.00	1967.40			
220.00	1498.54	3100.03	2188.97	58.812	290.00	1974.22	4086.07	2885.79	62.700
	• -						4186 00	2005 07	43 740
221.00	1505.35	3113.85	2198.65	58.875	291.00	1981.04			
222.00	1512.16	3127.68	2208-34	58.937	292.00	1987.86			
223.00	1518.97	3141.52	2218.04	58.999 59.061	293.00	1994.69 2001.52			
224.00	1525.78	3155.37	2227.76 2237.48	59.061 59.123	294.00 295.00	2008.35			
225.00	1532.58 1539.39	3169.24 3183.11	2247.21	59.184	296.00	2015.18			
226.00 227.00	1546.20	3196.99	2256.96	59.246	297.00	2022.01			
228.00	1553.01	3210.89	2266.71	59.307	298.00	2028.84			
229.00	1559.81	3224.79	2276.48	59.367	299.00	2035.68			63.137
230.00	1566.62	3238.70	2286.25	59.428	300.00	2042.51		2987.78	63.185

	O AIROSPRI	ERE 1300AK							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	COECIEIC	PATILALAY	*******	
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
(K)	(CC/GM)		(J/GM)	TO GIT K	(K)	VOLUME	(J/GM)	ENERGY	(J/GM-K)
• • • •			(3. 0)		18)	(CC/GM)		(J/GM)	
					91.00	527.04	1442 07	1000 25	
					92.00	533.02	1463.07	1089.25	47.147
					93.00	538.99	1474.31	1096.24	47.269
					94.00	544.97	1485.56	1103.25	47.391
					95.00		1496.83	1110.29	47.512
					96.00	550.93	1508.13	1117.35	47.631
					97.00	556.90	1519.45	1124.44	47.750
					98.00	562.86	1530.79	1131.55	47.868
29.190	112.41	720.19	640.44	32.874	99.00	568.82	1542.15	1138.69	47.984
30.00	122.09	737.51	650.91	33.461	100.00	574.77	1553.54	1145.85	48.100
			050471	336401	100.00	580.73	1564.95	1153.04	48.215
31.00	132.71	757.38	663.27	34.093	101.00	804 47	1574 20	1144 54	
32.00	142.32	773.76	672.81	34.631	102.00	586.67	1576.38	1160.26	48.329
33.00	151.32	789.42	682.08	35.120	103.00	592.62	1587.84	1167.50	48.442
34.00	159.91	804.95	691.52	35.577	104.00	598.56	1599.32	1174.76	48.554
35.00	168.19	820.08	700.81	36.004	105.00	604.49	1610.83	1182.05	48.665
36.00	176.18	834.48	709.57	36.404	106.00	610.43	1622.36	1189.37	48.776
37.00	183.90	848.05	717.66	36.777	107.00	616.36	1633.91	1196.72	48.885
38.00	191.37	860.93	725.20	37.128	108.00	622.29	1645.49	1204.09	48.994
39.00	198.66	873.46	732.48	37.462	109.00	628.21	1657.09	1211.48	49.102
40.00	205.87	885.94	739.82	37.783	_	634.14	1668.72	1218.91	49.209
		202074	, 3, 402	J. 8 103	110.00	640.06	1680.37	1226.36	49.315
41.00	213.06	898.60	747.40	38.095	111 00		1/03	1900	
42.00	220.24	911.43	755.21		111.00	645.98	1692.05	1233.83	49.420
43.00	227.18	923.60	762.44	38,399 38,687	112.00	651.90	1703.76	1241.34	49.525
44.00	234.06	935.69			113.00	657.82	1715.48	1248.87	49.629
45.00	240.89	947.72	769.65 776.84	38.966	114.00	663.73	1727.24	1256.43	49.732
46.00	247.68	959.70	784.02	39.236	115.00	669.65	1739.02	1264.01	49.834
47.00	254.38	971.54		39.499	116.00	675.56	1750.82	1271.62	49.936
48-00	261.02		791.11	39.753	117.00	681.47	1762.65	1279.26	50.037
49.00	267.63	983.29 994.95	798.14	39.999	118.00	687.38	1774.51	1286.92	50.137
50.00	274.21		805.11	40.239	119.00	693.29	1786.39	1294.62	50.237
30400	214021	1006.51	812.02	40.472	120.00	699.20	1798.30	1302.33	50.336
51.00	280.72	1010 02	.1.						
52.00	287.20	1018.03	818.90	40.699	121.00	705.11	1810.23	1310.08	50.434
53.00	293.65	1029.48	825.75	40.921	122.00	711.02	1822.19	1317.85	50.532
54.00	300.06	1049.87	832.57	41.137	123.00	716.93	1834.18	1325.65	50.629
55.00	306.45	1052.21	839.35	41.349	124.00	722.83	1846.19	1333.48	50.725
56.00	312.81	1063.51	846.11	41.557	125.00	728.74	1858.23	1341.34	50.821
57.00		1074.77	852.85	41.760	126.00	734.64	1870.30	1349.22	50.917
56.00	319.16	1086.00	859.58	41.959	127.00	740.53	1882.39	1357.14	51.013
59.00	325.50	1097-20	866.29	42.155	128.00	746.42	1894.52	1365.08	51.108
60.00	331.82	1108.38	873.00	42.347	129.00	752.31	1906.67	1373.05	51.202
90.00	338.14	1119.53	879.69	42.535	130.00	758.20	1918.84	1381.05	51.296
61.00	344.39	1120 48	004 00						
62.00	350.63	1130.65	886.37	42.719	131.00	764.09	1931.04	1389.07	51.390
63.00		1141.76	893.05	42.900	132.00	769.98	1943.27	1397.12	51.483
64.00	356.85 363.06	1152.85	899.72	43.078	133.00	775.86	1955.52	1405.20	51.576
65.00	369.26	1163.93	906.39	43.252	134.00	781.75	1967.80	1413.31	51.668
66.00	375.44	1175.00 1186.07	913.07	43.423	135.00	787.63	1980.11	1421.44	51.760
67.00	381.61		919.75	43.592	136.00	793.52	1992.44	1429.60	51.851
68.00	367.78	1197.12	926.43	43.758	137.00	799.40	2004.80	1437.78	51.942
69.00		1208.18	933.12	43.921	138.00	805.28	2017.18	1445.99	52.032
70.00	393.93 400.08	1219.23	939.81	44.081	139.00	811.16	2029.59	1454.23	52.122
, 5 = 5 5		1230.28	946.50	44.240	140.00	817.04	2042.02	1462.49	52.212
71.00	406.20	1241 21	062 10	44 300					
72.00		1241.31	953.19	44.396	141.00	822.92	2054.48	1470.78	52.301
73.00	412.31	1252.34	959.89	44.550	142.00	828.80	2066.96	1479.09	52.390
74.00	418.41	1263.37	966.59	44.702	143.00	834.67	2079.47	1487.43	52.479
75.00	424.50	1274.40	973.29	44.852	144.00	840.55	2092.00	1495.79	52.566
76.00	430.59	1285.43	980.01	45.000	145.00	846.43	2104.55	1504.18	52.654
77.00	436.66	1296.46	986.73	45.147	146.00	852.30	2117.13	1512.59	52.741
78.00	442.73	1307.50	993.46	45.291	147.00	858.18	2129.73	1521.03	52.828
79.00	448.80	1318.54	1000.20	45.434	148.00	864.05	2142.36	1529.49	52.914
80.00	454.86	1329.58	1006.95	45.575	149.00	869.92	2155.00	1537.97	53.000
90900	467.91	1340.63	1013.71	45.714	150.00	875.80	2167.68	1546.48	53.085
81-00	464 00	1261							
81.00	466.95	1351.70	1020.49	45.852	151.00	881.66	2180.37	1555.01	53.170
82.00	472.98	1362.77	1027.28	45.988	152.00	887.53	2193.08	1563.56	53.254
83.00	479.01	1373.86	1034.09	46.122	153.00	893.40	2205.82	1572.13	53.338
84.00	495.03	1384.96	1040.92	46.255	154.00	899.26	2218.58	1580.73	53.421
85.00	491.05	1396.07	1047.77	46.386	155.00	905.13	2231.36	1589.35	53.504
86.00	497.06	1407.19	1054.63	46.516	156.00	911.00	2244.16	1597.99	53.587
87.00	503.06	1418.33	1061.51	46.645	157.00	916.86	2256.98	1606.65	53.669
88.00	509.06	1429.49	1068.41	46.772	158.00	922.72	2269.83	1615.34	53.751
89.00	515.06	1440.67	1075.34	46.898	159.00	928.59	2282.69	1624.04	53.834
90.00	521.05	1451.86	1082.28	47.023	160.00	934.45	2295.58	1632.77	53.913

							7.00	AIMUSPHE	KE 1308AK
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM~K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)	(0,0.,	(J/GM)	(3/GH-K)
					,			· Jr Gn /	
161.00	940.31	2308.49	1641.52	53.993	231.00	1349.55	3252.81	2295.58	58.850
162.00	946.17	2321.42	1650.29	54.073	232.00	1355.39	3266.75	2305.38	58.911
163.00	952.04	2334.36	1659.08	54.153	233.00	1361.23	3260.70	2315.19	58.971
164.00	957.90	2347.33	1667.90	54,232	234.00	1367.07	3294.66	2325.01	59.030
165.00	963.76	2360.32	1676.73	54.311	235.00	1372.90	3308.63	2334.83	59.090
166.00	969.62	2373.33	1685.58	54.390	236.00	1378.74	3322.61	2344.67	59.149
167.00	975.48	2386.36	1694.45	54.468	237.00	1384.58	3336.59	2354.51	59.208
168.00	981.34	2399.40	1703.35	54.546	238.00	1390.41	3350.59	2364.37	59.267
169.00	987.20	2412.47	1712.26	54,623	239.00	1396.25	3364.59	2374.23	59.326
170.00	993.06	2425.56	1721.19	54.700	240.00	1402.08	3378.59	2384.09	59.384
							23,000	224407	371304
171.00	998.91	2438.66	1730.14	54.777	241.00	1407.92	3392.61	2393.97	59.442
172.00	1004.77	2451.79	1739.11	54.853	242.00	1413.75	3406.63	2403.85	59.500
173.00	1010.62	2464.93	1748.10	54.930	243.00	1419.58	3420.65	2413.74	59.558
174.00	1016.48	2478.09	1757.11	55.005	244.00	1425.41	3434.69	2423.64	59.616
175.00	1022.33	2491.27	1766.14	55.081	245.00	1431.24	3448.72	2433.54	59.673
176.00	1028.18	2504.47	1775.18	55.156	246.00	1437.07	3462.77	2443.46	59.730
177.00	1034.04	2517.69	1784.25	55,231	247.00	1442.90	3476.82	2453.37	59.787
178.00	1039.89	2530.92	1793.33	55.306	248.00	1448.72	3490.87	2463.30	59.844
179.00	1045.74	2544.17	1802.43	55.380	249.00	1454.55	3504.94	2473.23	59.901
180.00	1051.59	2557.44	1811.55	55.454	250.00	1460.37	3519.00	2483.17	
						140000	3317600	2403811	59.957
181.00	1057.44	2570.72	1820.68	55.527	251.00	1466.20	3533.08	2493.11	60-012
182.00	1063.29	2584.02	1829.83	55.601	252.00	1472.02	3547.15	2503.06	60.013 60.069
183.00	1069.14	2597.34	1839.00	55.674	253.00	1477.84	3561.24	2513.01	
184.00	1074.99	2610.67	1848.19	55.746	254.00	1483.66			60.125
185.00	1080.84	2624.03	1857.39	55.819	255.00		3575 • 32	2522.98	60-181
186.00	1086.69	2637.39	1866.61	55.891	256.00	1489.48	3589.42	2532.94	60.236
187.00	1092.54	2650.77	1875.84	55.962	257.00	1495.30	3603.52	2542.92	60.291
188.00	1098.39	2664.17	1885.09	56.034	258.00	1501-11	3617.62	2552.90	60.346
189.00	1104.23	2677.59	1894.36	56.105		1506.93	3631.73	2562.88	60.401
190.00	1110.08	2691.01	1903.64		259.00	1512.74	3645.84	2572.87	60.456
170000	1110000	2071.01	1703604	56.176	260.00	1518.56	3659.96	2582.87	60.510
191.00	1115.93	2704.46	1912.93	56.247	261.00	1524 27	2474 00	3500 07	
192.00	1121.77	2717.92	1922.25	56.317		1524.37	3674.09	2592.87	60.565
193.00	1127.62	2731.39	1931.57	56.387	262.00	1530.19	3688 • 22	2602.88	60.619
194.00	1133.47	2744.88	1940.92	56.457	263.00	1536-00	3702.35	2612-89	60.673
195.00	1139.31	2758.38	1950.27		264.00	1541.81	3716.49	2622.91	60.727
196.00	1145.16	2771.90	1959.64	56.526	265.00	1547.62	3730 • 64	2632.94	60.780
197.00	1151.00	2785.43		56.595	266.00	1553.43	3744.79	2642.97	60.834
198.00	1154.85		1969.03	56.664	267.00	1559.25	3758.95	2653.00	60.887
199.00	1162.69	2798.97 2812.53	1978.43	56.733	268.00	1565.06	3773.12	2663.04	60.940
200.00			1987.84	56.801	269.00	1570.87	3787.29	2673.09	60.993
200.00	1168.54	2826.10	1997.27	56.869	270.00	1576.68	3801.46	2683.15	61.045
201.00	1174.38	2839.69	2004 71	54 027	271 00	1505 40			
202.00	1180.22	2853.28	2006.71	56.937 57.004	271.00	1582.49	3815.65	2693.21	61.098
203.00	1186.06		2016.16	57.004	272.00	1588.31	3829.84	2703.27	61.150
204.00		2866.89	2025.63	57.072	273.00	1594.12	3844.03	2713.34	61.202
205.00	1191.90 1197.74	2880.51	2035.11	57.138	274.00	1599.94	3858.24	2723.42	61.254
206.00		2894.14	2044.60	57.205	275.00	1605.75	3872.45	2733.50	61.306
207.00	1203.58 1209.42	2907.79	2054.10	57.272	276.00	1611.57	3886.67	2743.59	61.358
208.00		2921.45	2063.62	57.338	277.00	1617.39	3900.89	2753.69	61.409
	1215.26	2935.12	2073.15	57.403	278.00	1623.21	3915.12	2763.79	61.460
209.00 210.00	1221-10	2948.81	2082.69	57.469	279.00	1629.03	3929.36	2773.90	61.512
210.00	1226.94	2962.51	2092.25	57.534	280.00	1634.86	3943.61	2784.01	61.562
211.00	1232.78	2974 22	2101 82	67 400	201	1445 45	2007 24		
212.00	1238.62	2976.22 2989.94	2101.82	57.600 57.666	281.00	1640.68	3957.86	2794.13	61.613
213.00	_		2111.40	57.664	282.00	1646.51	3972.12	2804.26	61.664
	1244.46	3003.67	2120.99	57.729	283.00	1652.34	3986.39	2814.39	61.714
214.00	1250.30	3017.42	2130.59	57.793	284.00	1658-17	4000 • 67	2824.53	61.765
215.00	1256.14	3031.18	2140.21	57.857	285.00	1664.01	4014.95	2834.67	61.815
216.00	1261.98	3044.94	2149.84	57.921	286.00	1669.84	4029.25	2844.82	61.865
217.00	1267.82	3058.73	2159.48	57.985	287.00	1675.68	4043.54	2854.98	61.915
218.00	1273.66	3072.52	2169.13	58.048	288.00	1681.52	4057-85	2865.14	61.964
219.00	1279.49	3086.32	2178.79	58,111	289.00	1687.37	4072.16	2875.31	62.014
220.00	1285.33	3100.14	2188.46	58.174	290.00	1693.21	4086.48	2885.48	62.063
221	1201 1-	2110	2162						
221.00	1291.17	3113.96	2198.15	58.237	291.00	1699.06	4100.81	2895.66	62.112
222.00	1297.01	3127.80	2207.84	58.299	292.00	1704.91	4115.14	2905.84	62.161
223.00	1302.85	3141.65	2217.55	58,361	293.00	1710.76	4129.48	2916.03	62.210
224.00	1308.69	3155.51	2227.27	58.423	294.00	1716.61	4143.82	2926.22	62.259
225.00	1314.52	3169.38	2237.00	58.485	295.00	1722.47	4158-17	2936.42	62.307
226.00	1320.36	3183.25	2246.73	58,547	296.00	1728.32	4172.53	2946.63	62.356
227.00	1326.20	3197.14	2256.48	58.608	297.00	1734.18	4186.89	2956.83	62.404
228.00	1332.04	3211.04	2266.24	58.669	298.00	1740.04	4201.25	2967.04	62.452
229.00	1337.87	3224.95	2276.01	58.730	299.00	1745.89	4215.62	2977.26	62.500
230.00	1343.71	3238.87	2285.79	58 . 790	300.00	1751.75	4229.99	2987.48	62.548

4.0	D ATHUSPIE	KE I SUBAK							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
			ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
ATURE	VOLUME	(MOVL)		(J/ GH-K)		(CC/GM)	(3) 64)	(J/GM)	10.00 47
(K)	(CC/GM)		(J/GM)		(K)	(CC) GM)		(3/GH)	
					01 00	440 00	1461.31	1087.67	46.579
					91.00	460.93			46.702
					92.00	466.18	1472.58	1094.68	
					93.00	471.43	1483.87	1101.71	46.824
					94.00	476.68	1495.18	1108.77	46.945
					95.00	481.92	1506.51	1115.85	47.065
					96.00	487.16	1517.86	1122.96	47.184
					97.00	492.40	1529.24	1130.09	47.302
					98.00	497.63	1540.64	1137.24	47.419
29.990	95,79	712.58	634.92	32.263	99.00	502.86	1552.06	1144.43	47.536
				32,267	100.00	508.09	1563.51	1151-63	47.651
30.00	95.87	712.74	635.01	324201	100.00	200403	1303131	*******	41000
					101 00	£12 22	1674 07	1150 04	47 746
31.00	107.19	736.68	649.69	33.049	101.00	513.32	1574.97	1158.86	47.765
32.00	117.15	756.94	661.98	33.696	102.00	518.54	1586.46	1166.12	
33.00	126.01	775.27	673.16	34.257	103.00	523.75	1597.97	1173.40	47.991
34.00	134.13	791.75	683.02	34.753	104.00	528.97	1609.51	1180.71	48.102
35.00	141.78	807.36	692.38	35,206	105.00	534.18	1621.07	1188.05	48.213
36.00	149.15	822.48	701.50	35.630	106.00	539.38	1632.65	1195.41	48.323
37.00	156.33	837.17	710.39	36.028	107.00	544.59	1644.25	1202.79	48.432
	163.33	851.40	719.00	36.404	108.00	549.79	1655.88	1210.21	48.540
38.00			727.25	36.760	109.00	554.99	1667.54	1217.64	48.647
39.00	170.16	865.13						1225.11	
40.00	176.80	878.39	735.14	37.098	110.00	560.18	1679.22	1253011	704/23
							1.65 65	3300	40 550
41.00	183.25	891.24	742.75	37.418	111.00	565.38	1690.92	1232.60	
42.00	189.54	903.82	750.17	37.725	112.00	570.57	1702.65	1240.12	
43.00	195.73	916.23	757.50	38.021	113.00	575.76	1714.40	1247.67	49.068
44.00	201.87	928.60	764.85	38,306	114.00	580.94	1726.18	1255.24	49.171
45.00	208.02	940.97	772.27	38.584	115.00	586.13	1737.98	1262.83	49.274
46.00	214.18	953.36	779.74	38.854	116.00	591.31	1749.81	1270.46	49.376
		965.47	786.99	39.113	117.00	596.50	1761.66	1278.11	
47.00	220.16				118.00	601.68	1773.53	1285.79	
48.00	226.08	977.47	794.17	39.365		_	1785.44	1293.49	
49.00	231.98	989.36	801.29	39.609	119.00	606.85			
50.00	237.85	1001.15	808.34	39.847	120.00	612.03	1797.36	1301.22	49.776
51.00	243.65	1012.87	815.36	40.078	121.00	617.21	1809.31	1308.98	
52.00	249.40	1024.52	822.32	40.304	122.00	622.38	1821.29	1316.77	
53.00	255.12	1036.09	829,25	40.524	123.00	627.56	1833,29	1324.58	50.070
54.00	260.81	1047.60	836.13	40.739	124.00	632.73	1845.32	1332.42	50.166
55.00	266.47	1059.05	842.98	40.949	125.00	637.90	1857.38	1340.28	50.262
56.00	272.11	1070-45	849.80	41.155	126.00	643.07		1348.18	
			856.60	41.356	127.00	648.23		1356.11	
57.00	277.73	1081.80			128.00	653.39		1364.06	
58.00	263.35	1093.12	863.37	41.554				1372.04	
59.00	288.96	1104.40	870.13	41.748	129.00	658.55			
60.00	294.56	1115.66	876.88	41.938	130.00	663.71	1918.08	1380.04	50.738
61.00	300.09	1126.88	883.62	42.124	131.00	668.87			
62.00	305.60	1138.08	890.34	42.306	132.00	674.03			
63.00	311.09	1149.27	897.07	42.485	133.00	679.18	1954.81	1404.23	51.017
64.00	316.57	1160.45	903.80	42.661	134.00	684.34	1967.10	1412.34	51.110
65.00	322.04	1171.61	910.53	42.834	135.00	689.49	1979.42	1420.48	51.202
66.00	327.50	1182.77	917.26	43.004	136.00	694.65	1991.77	1428.65	51.293
67.00	332.94	1193.92	924.00	43.171	137.00	699.80	2004.14	1436.84	51.384
			930.74	43.336	138.00	704.96			
68.00	338.38	1205-07			139.00	710.11			
69.00	343.82	1216.21	937.49	43.498		715.26			
70.00	349.24	1227.34	944.24	43.657	140.00	112020	-041040	*401031	214922
_							2050 00	1440 0-	21 744
71.00	354.63	1238.46	950 • 98	43.815	141.00	720.42			
72.00	360.02	1249.56	957.72	43.970	142.00	725.57			
73.00	365.39	1260.66	964.46	44.123	143.00	730.72			
74.00	370.75	1271.76	971.21	44.274	144.00	735.87	2091.44	1494.90	52.010
75.00	376.11	1282.86	977.96	44.423	145.00	741.03	2104.00	1503.30	52.097
76.00	381.46	1293.96	984.72	44.570	146.00	746.18	2116.60	1511.71	52.184
77.00	386.80	1305.05	991.49	44.715	147.00	751.33			
	392.14	1316.15	998.26	44.859	148.00	756.48			
78.00			1005.04	45.000	149.00	761.63			
79.00	397.48	1327.25				766.78			
80.00	402.80	1338.36	1011.84	45.140	150.00	1004/6	-101017		J J
					100 00	771 00	2170 00	1664 11	E2 414
81.00	408.11	1349.48	1018.65	45.278	151.00	771.92			
82.00	413.42	1360.60	1025.47	45.415	152.00	777.06			
83.00	418.72	1371.74	1032.31	45.550	153.00	782.20			
84.00	424.01	1382.88	1039.17	45.683	154.00	787.34	2218.14	1579.91	52.865
85.00	429.30	1394.04	1046.04	45.815	155.00	792.48	2230.94	1588.53	52.948
86.00	434.58	1405.21	1052.93	45.946	156.00	797.62			
	439.86	1416.40	1059.84	46.075	157.00	802.76			
87.00				46.203	158.00	807.89			
88.00	445.13	1427.60	1066.76			813.03			
89.00	450.40	1438.82	1073.71	46.329	159.00				
90.00	455.67	1450.05	1080.68	46.455	160.00	818.17	2677022	1031077	220321

				5115555V					######################################
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY (J/GM)	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM~K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
161.00	823.30	2308.14	1640.75	53.438	231.00	1181.64	3252.98	2295.11	58.298
162.00	828.44	2321.08	1649.52	53,518	232.00	1186.75	3266.92	2304.91	58.358
163.00	833.57	2334.03	1658.32	53.598	233.00	1191.87	3260.88	2314.73	58-418
164.00	838.70	2347.01	1667.14	53.677	234.00	1196.98	3294.85	2324.55	58.478
165.00	843.84	2360.01	1675.98	53.756	235.00	1202.09	3308.82	2334.38	58.537
166.00	848.97	2373.03	1684.84	53.834	236.00	1207.20	3322.80	2344.22	58.596
167.00	654.10	2386.07	1693.71	53.913	237.00	1212.31	3336.79	2354.07	58.655
168.00	859.23	2399.13	1702.61	53.991	238.00	1217.41	3350.79	2363.92	58.714
169.00	864.37	2412.21	1711.53	54.068	239.00	1222.52	3364.79	2373.78	58.773
170.00	869.50	2425.30	1720.47	54.145	240.00	1227.63	3378.81	2383.66	58.831
171 00	974.43	2429.42	1720.43	54 222	261.00	1222 74	2202 82	2202 52	50 000
171.00 172.00	874.62 879.75	2438.42 2451.55	1729.43 1738.40	54.222 54.299	241.00 242.00	1232.74 1237.84	3392.82 3406.85	2393.53 2403.42	58-890
173.00	884.88	2464.71	1747.40	54.375	243.00	1242.95	3420.88	2413.31	58•948 59•006
174.00	890.01	2477.88	1756.41	54,451	244.00	1248.05	3434.92	2423.22	59.063
175.00	895.13	2491.07	1765.45	54.526	245.00	1253.15	3448.96	2433.12	59.121
176.00	900.26	2504.27	1774.50	54.601	246.00	1258.26	3463.01	2443.04	59.178
177.00	905.38	2517.50	1783.57	54.676	247.00	1263.36	3477.07	2452.96	59.235
178.00	910.51	2530.74	1792.65	54.751	248.00	1268.46	3491.13	2462.89	59.292
179.00	915.63	2544.00	1801.76	54.825	249.00	1273.56	3505.20	2472.82	59.348
180.00	920.76	2557.28	1810.88	54.899	250.00	1278.66	3519.27	2482.76	59.405
181.00	925.88	2570.57	1820.02	54.973	251.00	1283.75	3533.34	2492.71	59.461
182.00	931.01	2583.88	1829.18	55.046	252.00	1288.65	3547.43	2502.66	59.517
183.00	936.13	2597.21	1838.35	55.119	253.00	1293.95	3561.51	2512.62	59.573
184.00	941.25	2610.55	1847.54	55.192	254.00	1299.04	3575.61	2522.58	59.628
185.00	946.37	2623.91	1856.75	55.264	255.00	1304.13	3589.71	2532.55	59.684
186.00	751.49	2637.28	1865.97	55.336	256.00	1309.23	3603.81	2542.53	59.739
187.00	956.62	2650.67	1875.21	55.408	257.00	1314.32	3617.92	2552.51	59.794
188.00	961.74	2664.08	1884.46	55.480	258.00	1319.41	3632.03	2562.50	59.849
189.00	966.86	2677.50	1893.73	55.551	259.00	1324.50	3646.15	2572.49	59.904
190.00	971.98	2690.94	1903.02	55.622	260.00	1329.59	3660.27	2582.49	59.958
101 00	077 10	2704 20	1012 22	EE 402	2/1 00		2474 48	2500 50	
191.00	977.10	2704.39	1912.32	55.693	261.00	1334.68	3674.40	2592.50	60.013
192.00	982.22	2717.85	1921.64	55.763	262.00	1339.77	3688.54	2602.51	60-067
193.00	987.34	2731.33	1930.97	55.833	263.00	1344.86	3702.68	2612.52	60-121
194.00	992.46	2744.83	1940 • 32	55.903	264.00	1349.94	3716.82	2622.54	60-174
195.00	997.58 1002.69	2758.34 2771.86	1949.68	55.972	265.00 266.00	1355.03	3730.97	2632-57	60.228
196.00 197.00	1007.81	2785.40	1959.05 1968.44	56.041		1360.12	3745.13	2642.61	60.281
198.00	1012.93	2798.95	1977.84	56.110 56.179	267.00 268.00	1365.21 1370.29	3759.29 3773.46	2652.64 2662.69	60•335 60•388
199.00	1018.05	2812.52	1987.26	56.247	269.00	1375.38	3787.64	2672.74	60.441
200.00	1023.17	2826.10	1996.69	56.316	270.00	1380.47	3801.82	2682.80	60.493
200400	.02501	2-20020	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	30,310	2.000	1300447	3001402	2002100	000473
201.00	1028.28	2839.68	2006.14	56.383	271.00	1385.56	3816.01	2692.86	60+546
202.00	1033.40	2853.29	2015.59	56.451	272.00	1390.64	3830.20	2702.92	60.598
203.00	1038.51	2866.90	2025.06	56.518	273.00	1395.73	3844.40	2713.00	60-650
204.00	1043.62	2880.53	2034.54	56.585	274.00	1400.82	3858.61	2723.08	60.702
205.00	1048.74	2894.17	2044.04	56.652	275.00	1405.92	3872.62	2733.16	60.754
206.00	1053.85	2907.82	2053.55	56.718	276.00	1411.01	3887.04	2743.26	60.806
207.00	1058.97	2921.49	2063.07	56.784	277.00	1416.10	3901.27	2753.35	60.857
208.00	1964.98	2935.17	2072.60	56.850	278.00	1421.20	3915.51	2763.46	60.908
209.00	1069.19	2948.86	2082.15	56.916	279.00	1426.29	3929.75	2773.57	60.960
210.00	1074.30	2962.56	2091.71	56.981	280.00	1431.39	3944.00	2783.68	61.011
	1435	2024							
211.00	1079.42	2976.28	2101.28	57.046	281.00	1436.49	3958.25	2793.80	61.061
212.00	1084-53	2990.00	2110.86	57.111	282.00	1441.59	3972.52	2803.93	61-112
213.00	1089.64	3003.74	2120.46	57.176	283.00	1446.69	3986.79	2814.07	61.162
214.00	1094.75	3077.50	2130.07	57.240	284.00	1451.80	4001.07	2824.21	61.213
215.00	1099.87	3031.26	2139.69	57.304	285.00	1456.90	4015.36	2834.35	61-263
216.00	1104.98	3045.03	2149.32	57.368	286.00	1462.01	4029.65	2844.50	61.313
217.00	1110.09	3058.82	2158.96	57.432	287.00	1467.12	4043.95	2854.66	61-363
218.00 219.00	1115.20 1120.31	3072.62	2168.61 2178.28	57,495 57,558	288.00	1472.23 1477.34	4058 • 26	2864 - 82	61-412
		3086.43	2187.96		289.00	_	4072.57	2374.99	61-462
220.00	1125.42	3100.25	£ 10 1 6 70	57.621	290.00	1482.46	4086.90	2885.17	61.511
221.00	1130.53	3114.08	2197.65	57.684	291.00	1487.58	4101.22	2895.35	61.560
222.00	1135.65	3127.92	2207.34	57.746	292.00	1492.70	4115.56	2905.53	61.609
223.00	1140.76	3141.77	2217.05	57.808	293.00	1497.82	4129.90	2915.72	61.658
224.00	1145.87	3155.64	2226.77	57.870	294.00	1502.94	4144.24	2925.92	61.707
225.00	1150.98	3169.51	2236.51	57.932	295.00	1508.06	4158.59	2936.12	61.756
226.00	1156.09	3183.40	2246.25	57.994	296.00	1513.18	4172.95	2946.32	61.804
227.00	1161.20	3197.29	2256.00	58.055	297.00	1518.31	4187.31	2956.53	61.852
228.00	1166.31	3211.20	2265.76	58,116	298.00	1523.43	4201.68	2966.74	61.901
229.00	1171.42	3225.11	2275.53	58.177	299.00	1528.56	4216.05	2976.96	61.949
230.00	1176.53	3239.04	2285.31	58,237	300.00	1533.69	4230.42	2987.18	61.996
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Trume (CC/OH)										
(K) (CC/GM) (J/GM) (K) (CC/GM) (J/GM) (A-C)16 (1974) (A-C)16 (1974										
			(J/GH)		(J/GM~K)			(J/GM)		(J/GM-K)
192-00 141-21 1470-26 1093-12 46-220 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 47-30 193-10 193-10 46-320 47-30 193-10 193-10 46-320 47-30 193-10 193-10 46-320 47-30 193-10 47-320 47-	187	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
192-00 141-21 1470-26 1093-12 46-220 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 193-10 46-320 47-30 193-10 193-10 46-320 47-30 193-10 193-10 46-320 47-30 193-10 193-10 46-320 47-30 193-10 47-320 47-						91.00	409.52	1459.55	1086-08	46.076
1.00										
10,730 82,30 703,16 628,10 31,652 100,00 437,61 1327,70 1128,62 43,61 43,71 46,684 43,71 46,684 43,71 46,684 43,71 46,71						93.00	418.89			46.322
19-00 437-61 1316-29 1121-47 46-650 46-600 475-61 137-70 1121-47 46-520 46-600 475-61 137-70 1121-70 1126-61 46-520 46-600 46-600 475-61 137-70 46-520 46-600						94.00	423.58			
10.730 1								1504.90	1114.35	46.564
30.730 82.30 703.16 628.10 31.652 100.00 446.96 1550.57 1125.79 47.036 25.00 120.00 851.63 1550.57 1126.27 47.152 131.00 85.58 711.52 633.21 31.916 100.00 451.63 1550.57 1126.22 47.152 132.00 94.54 737.23 649.21 32.743 100.00 450.63 1590.07 1127.24 47.266 252.00 94.54 737.23 649.21 32.743 102.00 450.00 1590.50 1177.27 47.86 651.15 32.409 102.00 450.60 1590.63 1177.20 47.433 13.00 100.77 77.48 650.15 32.499 102.00 450.60 1590.63 177.20 47.433 13.00 102.77 127.92 65.00 120.90 470.25 1608.20 1179.54 74.605 13.00 120.90 49.97 659.10 34.904 100.00 470.25 1608.20 1179.56 47.605 13.00 120.90 49.97 659.10 34.904 100.00 470.25 1608.20 1179.56 47.605 13.00 120.90 127.93 69.97 659.10 34.904 100.00 470.25 1608.20 1179.56 47.605 13.00 134.75 625.93 702.91 33.333 107.00 486.83 1634.69 120.40 47.95 180.00 134.768 850.18 721.47 35.114 100.00 470.55 1631.40 1194.08 47.955 180.00 147.68 850.18 721.47 35.114 100.00 470.55 1631.40 1194.08 47.955 180.00 147.68 850.18 721.47 35.114 100.00 470.55 165.00 1678.00 1278.38 82.27 147.80 850.11 727.92 36.486 110.00 470.55 1701.56 123.38 82.27 140.00 159.96 883.31 737.88 36.799 111.00 500.272 1609.80 1231.35 48.363 42.00 155.62 856.01 74.47 37.112 112.00 507.35 7101.56 123.88 82.27 140.00 159.96 883.31 737.88 36.799 111.00 500.272 1609.80 1231.35 48.363 42.00 155.62 856.01 74.47 37.112 112.00 507.35 7101.56 123.88 82.27 140.00 138.11 946.93 772.83 83.272 110.00 507.35 7101.56 123.88 82.84 82.40 156.62 856.01 74.47 37.112 112.00 507.35 7101.56 123.88 82.84 82.40 170.88 87.87 87.8										
10,730 82,30 703,16 628,10 31,652 100,00 451,63 1520,07 1142,99 47,036 31,000 351,63 1520,07 1322,49 47,036 31,000 351,63 1520,07 137,46 47,036 31,000										
30-700 82-30 703-16 628-10 31-652 100-00 451-63 1562-07 1150-22 47-152										
\$1.00	30.730	82.30	703.16	428.10	31 462					
32.00 96.54 737.25 649.21 32.743 102.00 465.00 159.63 1172.00 74.86 651.2 33.409 103.00 465.00 159.63 172.00 1172.00 74.84 651.2 33.409 103.00 465.00 159.63 172.00 1172.00 74.84 74.803	300.30	32130	.03610	020610	311072	10000	431.603	1702.07	1170022	414132
\$2.00	31.00	85.58	711.32	633.21	31.916	101.00	456.29	1573.57	1157.46	47.266
33-00 113,48 777,32 673,65 33,959 104,00 470,25 160,20 1179,36 47,605 35.00 120,96 793,79 683,34 34,449 105,00 476,55 1631,40 1186,71 47,716 36,00 127,93 809,97 693,10 34,904 106,00 476,55 1631,40 1194,00 47,826 37,00 134,73 825,93 702,191 35,333 107,00 484,191 1643,03 1194,00 47,826 37,00 141,42 841,42 712,46 35,736 108,00 485,83 165,69 120,91 48,043 39,00 124,88 861,18 721,47 36,114 109,00 493,46 1666,57 120,91 48,043 40,00 154,07 870,11 729,82 36,468 110,00 493,46 1666,57 120,91 48,043 42,00 159,96 883,31 737,58 36,799 111,00 502,72 1689,80 1231,35 48,458 43,00 171,15 908,52 732,26 37,413 113,00 511,97 1713,33 124,03 48,464 45,00 186,23 733,91 767,41 37,991 115,00 511,97 1713,33 124,03 48,674 48,00 186,23 733,91 767,41 37,991 115,00 521,21 1750,66 1261,64 46,77 46,00 186,13 794,57 797,41 37,991 115,00 521,21 1750,66 1261,64 46,76 48,00 186,88 791,57 790,14 38,794 116,00 535,62 176,86 1262,32 393,91 767,41 37,991 115,00 521,21 1750,66 1262,32 48,666 49,00 200,00 200,00 200,00 200,00 200,58 993,71 797,41 39,003 119,00 539,65 1788,49 1292,36 49,182 49,00 200,58 993,71 797,41 39,003 119,00 539,65 1788,49 1292,36 49,182 49,00 200,58 199,75 806,62 39,286 120,00 534,66 182,424 130,00 130,68 49,486 30,00 200,00 200,00 1019,53 818,86 39,751 122,00 534,66 182,44 130,00 131,68 49,478 536,00 220,00 1019,53 818,86 39,751 122,00 534,66 182,44 130,00 131,68 49,478 536,00 220,00 1019,53 818,86 39,751 122,00 534,66 182,44 130,00 131,68 49,478 536,00 220,00 1019,53 818,86 39,751 122,00 534,66 182,44 130,00 131,68 49,478 130,00 130,00 130,00 130,00 130,00 130,00 130,00 130,00 130,00				649.21	32.743	102.00	460.95	1585.09	1164.73	
35.00 120.96 793.79 683.34 34.449 105.00 474.90 1619.79 1184.71 477.716 477.								1596.63		47.493
36.00 127.*3 809.97 693.10 34.904 106.00 479.55 1631.40 1194.08 47.825 13.00 134.75 825.99 702.91 35.333 107.00 484.19 1643.20 1201.84 47.925 18.00 141.42 841.42 712.46 35.736 108.00 488.83 1634.69 1208.91 440.03 19.00 134.07 870.11 729.82 36.466 110.00 498.09 1678.08 122.25 48.151 40.00 134.07 870.11 729.82 36.466 110.00 498.09 1678.08 122.25 48.257 44.151 40.00 134.07 870.11 729.82 36.466 110.00 598.09 1678.08 122.25 48.257 44.151 40.00 1159.96 883.31 737.58 36.799 111.00 507.35 1701.56 123.86 48.257 44.00 170.56 2 896.01 744.97 37.112 112.00 507.35 1701.56 123.86 48.454 48.300 171.15 908.22 732.26 37.413 113.00 511.97 1713.31 123.68 48.545 48.500 171.15 908.22 732.26 37.413 113.00 511.97 1713.31 123.68 48.554 48.500 182.32 933.91 767.41 37.991 115.00 521.21 1736.07 126.12 44.67 44.700 189.52 935.91 775.38 38.272 116.00 525.62 1748.80 126.02 48.671 47.00 193.52 935.91 770.14 38.799 1115.00 521.21 1736.60 126.28 48.881 47.00 193.52 935.91 770.14 38.799 1116.00 525.62 1748.80 126.28 48.881 47.00 193.52 935.71 770.14 38.799 116.00 525.62 1748.80 126.28 48.881 50.00 10.63 935.71 770.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 38.799 116.00 535.04 1772.57 126.40 49.00 10.63 935.77 90.14 93.50 935.04 1772.57 126.40 49.00 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 10.63 935.70 126.20 935.70 126.20 935.70 126.20 935.70 126.20 935.70 126.20 935.70 126.20 935.70 126.20 935.10 126.20 935.10 126.20 935.10 126.20 935.10										
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38.00 141.42 841.42 712.46 35.736 108.00 488.83 1654.69 120.91 48.051 40.00 134.07 870.11 729.82 34.468 110.00 498.09 1678.08 122.35 48.151 40.00 155.62 896.01 774.59 36.759 111.00 502.72 1689.80 1231.35 48.363 42.00 165.62 896.01 774.59 37.11 112.00 507.35 1701.55 1238.39 48.468 43.00 176.18 921.10 774.93 37.11 112.00 507.35 1701.55 1238.39 48.468 43.00 176.18 921.10 775.00 37.10 110.00 511.50 1238.39 48.468 43.00 176.18 921.10 775.00 37.41 37.05 115.00 511.50 1238.39 140.45 48.579 48.00 176.18 921.10 775.38 38.272 116.00 525.62 1768.80 122.21 176.06 48.779 48.00 188.11 946.99 775.38 38.272 116.00 525.62 1768.80 126.08 48.681 47.00 193.52 995.31 182.79 38.379 117.00 530.43 1760.68 1276.98 48.881 47.00 193.52 995.31 182.79 38.379 117.00 530.43 1760.68 1276.98 48.982 49.00 204.23 983.71 777.41 379.04 118.00 535.04 1772.57 1264.64 49.062 49.00 198.88 971.57 790.14 38.794 118.00 535.04 1772.57 1264.64 49.062 126.00 198.88 971.57 790.14 38.794 118.00 535.04 1772.57 1264.64 49.062 126.00 198.88 971.57 790.14 38.794 118.00 535.04 1772.57 1264.64 49.082 12.00 209.58 995.75 804.62 39.286 120.00 544.26 1796.44 1300.11 49.282 12.00 209.58 995.75 804.62 39.286 120.00 544.26 1796.44 1300.11 49.282 12.00 209.58 995.75 804.62 39.286 120.00 544.26 1796.44 1300.11 49.282 12.00 209.58 10.00 209.58 816.88 811.77 39.52 122.00 553.66 1808.41 1307.88 49.385 12.00 225.00 1019.53 816.86 39.751 122.00 553.66 1808.41 1307.88 49.385 12.00 225.35 108.00 225.35										
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	A0.00	404.52	1448.25	10/9.07	45.951	160.00	727.73	2294.86	1631.21	52.867

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
				53.047	221 00	1051 05	3253.15	2294.64	57.810
161.00	732.30	2307.79	1639.97	52.947	231.00	1051.05	3267.10	2304.45	57.870
162.00	736.87	2320.74	1648.76	53.027	232.00	1055.60	3281.06	2314.27	57.930
163.00	741.44	2333.71	1657.56	53.107	233.00	1060.14	3295.04	2324.09	57.990
164.00	746.01	2346.70	1666.38	53.187	234.00			2333.93	58.049
165.00	750-57	2359.71	1675.23	53.266	235.00	1069-23	3309.01 3323.00	2343.77	58.109
166.00	755 • 14	2372.74	1684.09	53.344	236.00	1073.77		2353.62	58.168
167.00	759.70	2385.79	1692.98	53.423	237.00	1078.32 1082.86	3337.00 3351.00	2363.48	58.227
168.00	764.27	2398.86	1701.89	53.500	238.00		3365.01	2373.34	58.285
169.00	768.83	2411.94	1710.81	53.578	239.00	1087.40 1091.95	3379.02	2383.22	58.344
170.00	773.40	2425.05	1719.75	53.655	240.00	1071073	3317602	2,0,00	3003.1
171 00	777.96	2438.18	1728.72	53,732	241.00	1096.49	3393.05	2393.10	58.402
171.00	782.52	2451.32	1737.70	53.809	242.00	1101.03	3407.08	2402.99	58.460
172.00	787.08	2464.48	1746.70	53.885	243.00	1105.57	3421.11	2412.89	58.518
173.00	791.64	2477.66	1755.72	53,961	244.00	1110.11	3435.16	2422.79	58.576
174.00	796 • 20	2490.86	1764.76	54.037	245.00	1114.64	3449.21	2432.70	58.633
175.00	800.76	2504.08	1773.82	54.112	246.00	1119.18	3463.26	2442.62	58.690
176.00	805.32	2517.31	1782.89	54.187	247.00	1123.72	3477.32	2452.54	58.747
177.00	88.998	2530.56	1791.98	54.261	248.00	1128.25	3491.39	2462.47	58.804
178.00	814.44	2543.83	1801.09	54.336	249.00	1132.79	3505.46	2472.41	58.861
179.00	819.00	2557.12	1810.22	54.410	250.00	1137.32	3519.53	2482.35	58.917
180.00	913400	2331412	101014	346420	270000				
181.00	823.56	2570.42	1819.37	54.483	251.00	1141.85	3533.62	2492.30	58.974
182.00	828.12	2583.74	1828.53	54.557	252.00	1146.39	3547.70	2502.26	59.030
183.00	832.67	2597.07	1837.71	54.630	253.00	1150.92	3561.80	2512.22	59.085
.	837.23	2610.42	1846.90	54.703	254.00	1155.45	3575.89	2522.19	59.141
184.00	841.79	2623.79	1856.11	54.775	255.00	1159.98	3590.00		
185.00 186.00	846.34	2637.17	1865.34	54.847	256.00	1164.51	3604.11	2542.14	
	850.90	2650.57	1874.58	54.919	257.00	1169.03	3618.22	2552.13	
187.00		2663.98	1883.84	54.991	258.00	1173.56	3632.34	2562.12	
188.00	855 • 45 860 • 01	2677.41	1893.12	55.062	259.00	1178.09	3646.46	2572.11	59.417
189.00	864.57	2690.86	1902.41	55.133	260.00	1182.61	3660.59		
190.00	004471	2090.00	1902.41	336125	20000	2-0000	2000	•	•
191.00	869.12	2704.32	1911.71	55.204	261.00	1187.14	3674.72	2592.12	59.525
192.00	873.67	2717.79	1921.03	55.274	262.00	1191.66	3688.86		59.580
193.00	878.23	2731.28	1930.37	55.344	263.00	1196.19	3703.01	2612.16	59.634
194.00	882.78	2744.78	1939.72	55.414	264.00	1200.71		2622.18	59.687
195.00	887.34	2758.30	1949.08	55,483	265.00	1205.24			59.741
196.00	891.89	2771.83	1958.46	55.553	266.00	1209.76			
197.00	896.44	2785.37	1967.86	55.622	267.00	1214.28	3759.64		
198.00	901.00	2798.93	1977.26	55.690	268.00	1218.81			
199.00	905.55	2812.50	1986.68	55.759	269.00	1223.33			
200.00	910.10	2826.09	1996.12	55.827	270.00	1227.86			60.006
200.00	310010	202000	1,,0011						
201.00	914.65	2839.68	2005.57	55.895	271.00	1232.38	3816.37	2692.51	60.059
202.00	919.20	2853.29	2015.03	55.962	272.00	1236.91	3830.57	2702.58	60.111
203.00	923.75	2866.91	2024-50	56.029	273.00	1241.43		2712.66	60.163
204.00	928.30	2889.55	2033.99	56.096	274.00	1245.96		2722.74	60.215
205.00	932.85	2894.19	2043.48	56.163	275.00	1250.48	3873.20		60.267
206.00	937.39	2907.85	2053.00	56.230	276.00	1255.01			60.319
207.00	941.94	2921.52	2962.52	56.296	277.00	1259.54	3901.65	2753.02	60.370
208.00	946.49	2935.21	2072.06	56.362	278.00	1264.07			60.422
209.00	951.04	2948.91	2081.61	56.427	279.00	1268.60		2773.24	60.473
210.00	955.59	2962.62	2091.17	56.493	280.00	1273.13			
				-					
211.00	960.13	2976.34	2100.75	56.558	281.00	1277.67			
212.00	964.68	2990.07	2110.33	56.623	282.00	1282.20			
213.00	769.23	3003.82	2119.93	56.688	283.00	1286.74	3987.19	2813.75	60.676
214.00	973.77	3017.57	2129.54	56.752	284.00	1291.28	4001.47	2823.89	60.726
215.00	978.32	3031.34	2139.17	56.816	285.00	1295.82	4015.76	2834.03	60•776
216.00	982.87	3045.12	2148.80	56.880	286.00	1300.36	4030.06	2844.19	
217.00	987.41	3058.92	2158.45	56.944	287.00	1304.90	4044.36	2854.35	60.876
218.00	991.96	3072.72	2168.11	57.007	288.00	1309.45		2864.51	
219.00	996.51	3086.53	2177.78	57.070	289.00	1313.99	4072.99		
220.00	1001.05	3100.36	2187.46	57.133	290.00	1318.54			61.024
	. =								
221.00	1005.60	3114.20	2197.15	57.196	291.00	1323.09			
222.00	1010-14	3128.05	2206.85	57.258	292.00	1327.64	4115.98		
223.00	1014.69	3141.90	2216.56	57.320	293.00	1332.19	4130.32		
224.00	1019.23	3155.77	2226.29	57,382	294.00	1336.75			
225.00	1023.78	3169.65	2236.02	57.444	295.00	1341.30	4159.02		
226.00	1028.33	3183.54	2245.77	57.506	296.00	1345,85			
227.00	1032.87	3197.44	2255.52	57.567	297.00	1350.41			
228.00	1037.42	3211.35	2265.29	57.628	298.00	1354.97	4202.11		
229.00	1041.96	3225.27	2275.06	57.689	299.00	1359.52			
230.00	1046.50	3239.20	2284.84	57.750	300.00	1364.08	4230.85	2986.88	61.510
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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)	10,0	(J/GM)	10/ m1-x/
								10/04/	
					91.00	368.40	1457.79	1084.50	45.625
					92.00	372.63	1469.14	1091.55	45.749
					93.00	376.87	1480.51	1098.63	45.872
					94.00	381.10	1491.89	1105.72	45.994
					95.00	385.33	1503.30	1112.84	46.114
					96.00	389.56	1514.73	1119.98	46.234
					97.00	393.79	1526.17	1127.14	46.353
					98.00	398.02	1537.64	1134.33	46.471
					99.00	402.24	1549.13	1141.55	44.588
					100.00	406.46	1560.65	1148.79	46.704
									400104
31.410	70.89	691.36	619.52	31.024	101.00	410.68	1572.18	1156.05	46.819
32.00	77.47	710-61	631.57	31.635	102.00	414.89	1583.73	1163.34	46.933
33.00	87.81	735.71	646.30	32.464	103.00	419.09	1595.31	1170.65	47-046
34.00	96.85	761.25	663.12	33,172	104.00	423.30	1606.90	1177.99	47.158
35.00	104.67	781.86	676.08	33.752	105.00	427.50	1618.52	1185.35	47.270
36.00	111.56	799.59	686.86	34.251	106.00	431.70	1630.16	1192.74	47.380
37.00	117.85	815.71	696.49	34.698	107.00	435.89	1641.82	1200.15	47.489
38.00	123.77	830.96	705.55	35.110	108.00	440.08	1653.51	1207.59	47.598
39.00	129.54	845.71	714.32	35,496	109.00	444.27	1665.22	1215.06	47.706
40.00	135.24	860.11	722.92	35.863	110.00	448.45	1676.95	1222.55	47.813
41 44	• • • • • • •		 -			_			
41.00	140.89	874.22	731.36	36.213	111.00	452.63	1688.70	1230.07	47.919
42.00	146.45	888.03	739.64	36.547	112.00	456.80	1700.48	1237.62	48.024
43.00	151.86	901.54	747.73	36.865	113.00	460.98	1712.28	1245.19	48.128
44.00	157.16	914.75	755.63	37.169	114.30	465.15	1724.10	1252.79	48.232
45.00	162.28	927.69	763.36	37.460	115.00	469.31	1735.94	1260.41	48.335
46.00	167.25	940.41	770.95	37.740	116.00	473.47	1747.81	1268.06	48.437
47.00	172.12	952.97	778.45	38.009	117.00	477.63	1759.70	1275.74	48.539
48.00	176.98	965.44	785.90	38.271	118.00	481.79	1771.62	1283.45	48.639
49.00	181.90	977-86	793.36	38.526	119.00	485.94	1783.56	1291-18	48.739
50.00	186.96	990.29	800.85	38.776	120.00	490.09	1795.52	1298.93	48.839
51.00	191.74	1002.45	808.14	39.015	121.00	494.24	1807.51	1306.72	48.937
52.00	196.46	1014.51	815.36	39,248	122.00	498.38	1819.52	1314,53	49.035
53.00	201.15	1026.45	822.51	39,475	123.00	502.52	1831.56	1322.37	49.133
54.00	205.80	1038.31	8 <i>2</i> 9.61	39,696	124.00	506.66	1843.62	1330.23	49.230
55.00	210.42	1050.08	836.65	39,912	125.00	510.80	1855.70	1338.12	49.326
56.00	215.04	1061.77	843.64	40.123	126.00	514.94	1867.82	1346.05	49.422
57.00	219.66	1073.39	850.60	40.330	127.00	319.07	1879.97	1353.99	49.518
58.00	224.29	1084.96	857.51	40.532	128.00	523.21	1892.14	1361.97	49.613
59.00	228.93	1096.A7	864.40	40.730	129.00	527.34	1904.34	1369.97	49.708
60.00	233.58	1107.95	871.27	40.924	130.00	531.48	1916.56	1378.00	49.803
41 00									
61.00	238.08	1119.38	878.12	41.114	131.00	535.61	1928.81	1386.06	49.896
62.00	242.57	1130.78	884.96	41.299	132.00	539.74	1941.08	1394.14	49.990
63.00	247.04	1142.16	891.79	41.482	133.00	543.87	1953.38	1402.25	50.083
64.00	251.50	1153.52	898.62	41.661	134.00	548.01	1965.71	1410.38	50.175
65.00	255.94	1164.87	905.46	41.837	135.00	552.14	1978.06	1418.54	50.267
66+00 67+00	260.38	1176.21	912.30	42.009	136.00	556.27	1990.43	1426.73	50.359
68.00	264.82	1187.54	919.14	42.180	137.00	560.40	2002.83	1434.94	50.450
69.00	269.25	1198.86	925.99	42.347	138.00	564.54	2015.26	1443.18	50.541
70.00	273.67 278.10	1210.18	932.84	42.512	139.00	568.67	2027.71	1451.44	50.631
	2.0010	1221.49	939.70	42.674	140.00	572.80	2040.19	1459.72	50.72
71.00	282.47	1232.75	046 53	A2 922	143 44				
72.00	286.83	1244.01	946.53	42.833	141.00	576.94	2052.69	1468.04	50.811
73.00	291-18	1255.26	953.36 960.19	42.991	142.00	581.07	2065.21	1476.37	50.900
74.00	295.53	1266.49		43.146	143.00	585.21	2077.76	1484.74	50.989
75.00	299.87	1277.73	967.02	43.298	144.00	589.34	2090.33	1493.12	51.077
76.00	304.20	1288.95	973.85 980.69	43.449	145.00	593.48	2102.92	1501.53	51.165
77.00	308.53	1300.18		43,598	146.00	597.61	2115.54	1509.97	51.252
78.00	312.85	1311.40	987.53	43.745 43.890	147.00	601.75	2128.19	1518.42	51.339
79.00	317.16	1322.62	994.38		148.00	605.89	2140.85	1526.91	51.426
80.00	321.47	1333.84	1001.23	44.033	149.00	610.02	2153.54	1535.41	51.512
	-	4777 907	1008.10	44.174	150.00	614.16	2166.25	1543.94	51.598
81.00	325.76	1345.07	1014.97	AA. 212	181 44	/10 0-			
82.00	330.05	1356.30	1021.86	44.313	151.00	618.28	2178.98	1552.49	51.682
83.00	334.33	1367.54		44,451	152.00	622.41	2191.73	1561.06	51.767
84.00	338.60	1378.78	1028.76	44.587	153.00	626.53	2204.50	1569.66	51.851
85.00	342.87		1035-67	44.722	154-00	630.65	2217.30	1578-27	51.935
86.00	347.13	1390.03	1042.60	44.855	155.00	634.77	2230.11	1586.91	52.018
87.00	351.39	1401.29	1049.54	44.986	156.00	638.89	2242.95	1595.57	52.100
88.00	355.65	1412.57	1056.50	45.117	157.00	643.01	2255.81	1604.26	52.183
89.00	359.90	1423,85	1063.47	45.245	158.00	647.13	2268.69	1612.96	52.265
90.00	364.15	1435.15	1070.46	45.373	159.00	651.25	2281.59	1621.69	52.346
	70-4613	1446.46	1077.47	45.499	160.00	655.37	2294.51	1630.44	52.427

							2000		
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
161.00	659.49	2307.45	1639.21	52.508	231.00	946.58	3253.32	2294.17	
162.00	663.61	2320.41	1648.00	52,588	232.00	950.67	3267.27	2303.98	57.434
163.00	667.72	2333.39	1656.81	52.668	233.00	954.76	3281.23	2313.80	57.494
164.00	671.84	2346.39	1665.64	52.747	234.00	958.85	3295.21	2323.62	57.553
165.00	675.95	2359.41	1674.49	52.827	235.00	962.94	3309.19 3323.17	2333.46 2343.30	57.613 57.672
166.00	680-07	2372.45 2385.51	1683.36 1692.25	52.905 52.984	236.00 237.00	967.03 971.12	3337.17	2353.15	57.731
167.00 168.00	684.18 688.29	2398.59	1701.16	53.062	238.00	975.21	3351.18	2363.02	57.790
169.00	692.41	2411.69	1710.09	53.139	239.00	979.30	3365.19	2372.88	57.849
170.00	696.52	2424.80	1719.04	53.216	240.00	983.39	3379.21	2382.76	57.907
2.000	0,04,24	I . I . I . I							•
171.00	700.63	2437.94	1728.01	53,293	241.00	987.48	3393.24	2392.65	57.966
172.00	704.74	2451.09	1737.00	53.370	242.00	991.57	3407.27	2402.54	58-024
173.00	708.85	2464.27	1746.00	53.446	243.00	995.65	3421.32	2412.44	58.082
174.00	712.96	2477.46	1755.03	53,522	244.00	999.74	3435.37	2422.35	58.139
175.00	717.07	2490.66	1764.07	53.598	245.00	1003.83	3449.42	2432.27	58.197
176.00	721.18	2503.89	1773.13	53,673	246.00	1007.91	3463.49	2442.19	58.254
177.00	725.28	2517.13	1782.21	53.748	247.00	1012.00	3477.56	2452.12	58.311
178.00	729.39	2530.39	1791.31	53.823	248.00	1016.08	3491.63	2462.06	58.368
179.00	733.50	2543.67	1800.43	53.897	249.00	1020.17	3505.71	2472.00	58.425
180.00	737.61	2556.96	1809.56	53.971	250.00	1024.25	3519.80	2481.95	58.481
		- • • •		= -	•				
181.00	741.71	2570.27	1818.71	54.045	251.00	1028.34	3533.90	2491.91	58.537
182.00	745.82	2583.60	1827.87	54.119	252.00	1032.42	3548.00	2501.87	58.593
183.00	749.52	2596.94	1837.06	54.192	253.00	1036.50	3562.10	2511.84	58 • 649
184.00	754.03	2610.30	1846.26	54.265	254.00	1040.58	3576.21	2521.82	58.705
185.00	758.13	2623.68	1855.47	54.337	255.00	1044.66	3590.33	2531.80	58.761
186.00	762.23	2637.07	1864.71	54.409	256.00	1048.74	3604.45	2541.79	58.816
187.00	766.34	2650.47	1873.55	54.481	257.00	1052.82	3618.57	2551.78	58.871
188.00	770-44	2663.89	1883.22	54.553	258.00	1056.90	3632.70	2561.78	58.926
189.00	774.54	2677.33	1892.50	54.624	259.00	1060.97	3646.84	2571.78	58.981
190.00	778.65	2690.78	1901.79	54.695	260.00	1065.05	3660.98	2581.79	59.035
		_							
191.00	782.75	2704.25	1911.10	54.766	261.00	1069.13	3675.12	2591.80	59.090
192.00	786.85	2717.73	1920•43	54.836	262.00	1073.20	3689.27	2601.82	59.144
193.00	790.95	2731.22	1929.77	54.906	263.00	1077.28	3703.42	2611.85	59.198
194.00	795.05	2744.73	1939.12	54.976	264.00	1081.35	3717.58	2621.88	59.252
195.00	799.15	2758.26	1948.49	55.046	265.00	1085.43	3731.74	2631.91	59.305
196.00	803.25	2771.80	1957.88	55.115	256.00	1089.50	3745.91	2641.95	59.359
197.00	807.35	2785.35	1967.27	55.184	267.00	1093.58	3760.08	2652.00	59.412
198.00	811.45	2798.91	1976.69	55.253	268.00	1097.65	3774.26	2662.04	59•465
199.00	815.55	2812.49	1986.11	55.321	269.00	1101.72	3788.44	2672.10	59,518
200.00	819.65	2826.08	1995.55	55.389	270.00	1105.79	3802,63	2682.16	59.570
								2422 22	
201.00	823.75	2839.68	2005.00	55.457	271.00	1109.87	3816.82	2692.22	59.623
202.00	827.84	2853.30	2014.46	55.525	272.00	1113.94	3831.01	2702.29	59.675
203.00	831.94	2866.93	2023.94	55.592	273.00	1118.01	3845.22	2712.36	59.728
204.00	836.04	2880.57	2033.43	55.659	274.00	1122.08	3859.42	2722.44	59.780
205.00	840.13	2894.22	2042.93	55.726	275.00	1126.16	3873.63	2732.53	59.831
206.00	844.23	2907.89	2052.45	55.792	276.00	1130.23	3887.85	2742.62	59.883
207.00	848.33	2921.57 2935.26	2061.98	55.859 55.925	277.00	1134.31	3902.08	2752.71	59.935
208.00 209.00	852.42 856.52	2948.96	2071.52 2081.07		278.00	1138.38	3916.31	2762.81	59.986
210.00	860.61	2962.68	2090.64	55.990 56.056	279.00 280.00	1142.46 1146.53	3930 .5 4 3944 . 78	2772.92 2783.03	60•037 60•088
			201000	200320	20000	11.40000	3744610	2.03003	001000
211.00	864.71	2976.40	2100.22	56,121	281.00	1150.61	3959.03	2793.15	60.139
212.00	868.80	2990.14	2109.81	56,186	282.00	1154.69	3973.29	2803.27	60.189
213.00	872.90	3003.89	2119.41	56,251	283.00	1158.77	3987.55	2813.40	60.240
214.00	876.99	3017.66	2129.03	56.315	284.00	1162.85	4001.82	2823.53	60.290
215.00	851.08	3031.43	2138.65	56.379	285.00	1166.93	4016.19	2833.67	60.340
216.00	885.18	3045.22	2148.29	56.443	286.00	1171.02	4030.39	2843.82	60.390
217.00	889.27	3059.02	2157.94	56.507	287.00	1175.10	4044.68	2853.98	60.440
218.00	893.37	3072.83	2167.60	56.570	288.00	1179.19	4058.99	2864.14	60.490
219.00	897.46	3086.65	2177.27	56,633	289.00	1183.28	4073.30	2874.30	60.539
220.00	901.55	3100.48	2186.96	56.696	290.00	1187.37	4087.62	2884.48	60.589
			_						
221.00	905.65	3114.32	2196.65	56.759	291.00	1191.46	4101.95	2894.66	60.638
222.00	909.74	3128.18	2206.36	56.821	292.00	1195.56	4116.28	2904.84	60.687
223.00	913.83	3142.04	2216.07	56.884	293.00	1199.66	4130.63	2915.04	60.736
224.00	917.93	3155.91	2225.80	56.946	294.00	1203.76	4144.98	2925.24	60.785
225.00	922.02	3169.80	2235.54	57.008	295.00	1207.86	4159.35	2935.45	60.833
226.00	926.11	3183.69	2245.28	57.069	296.00	1211.96	4173.72	2945.66	60.882
227.00	930.21	3197.60	2255.04	57.130	297.00	1216.07	4188.10	2955.88	60.930
228.00	934.30	3211.51	2264.81	57.191	298.00	1220.17	4202.49	2966.11	60.978
229.00	938.39	3225.44	2274.59	57.252	299.00	1224.28	4216.88	2976.35	61.026
230.00	942.48	3239.37	2284.38	57.313	300.00	1228.39	4231.29	2986.59	61.074

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	245.11	1449.17	1076 • 62	43.868
					92.00	247.99	1460.71	1083.78	43.994
					93.00	250.87	1472.28	1090.96	44.119
					94.00	253.75	1483.85	1098.15	44.243
					95.00	256.63	1495.44	1105.36	44.366
					96.00	259.51	1507.05	1112.60	44.488
					97.00	262.39	1518.67	1119.85	44. 209
					98.00	265.26	1530.31	1127.12	44.729
					99.00	268.14	1541.97	1134.41	44.848
					100.00	271.02	1553.65	1141.73	44.966
					101.00	273.88	1545 24	1140.04	
					102.00	276.74	1565.34	1149.06	45.083
					103.00	279.60	1577.05	1156.42	45.199
34.00	27.05	548.05	506.95	25,968	104.00	282.46	1588.77 1600.51	1163.81	45.313
35.00	37.29	636.00	571.19	28.514	105.00	285.31		1171.21	45.427
36.00	48.82	696.47	614.33	30.239	106.00	288.16	1612.27 1624.05	1178.65	45.540
37.00	60.01	738.65	643.48	31.417	107.00	291.00		1186.10	45.652
38.00	69.35	769.13	663.73	32.245	108.00	293.84	1635,85	1193.59	45.763
39.00	76.27	792.49	678.61	32.857	109.00	296.67	1647.67 1659.50	1201.10 1208.63	&5.873
40.00	81.24	811.77	690.47	33.344	110.00	299.50	1671.36		45.982
					220403	277630	10/1430	1216.19	46.090
41.00	85.08	828.91	700.80	33.763	111.00	302.32	1683.23	1223.78	46.197
42.00	88.55	845.03	710.44	34.148	112.00	305.14	1695.13	1231.39	46.303
43.00	92.13	860.72	719.85	34.515	113.00	307.96	1707.04	1239.03	46.409
44.00	96.01	876.20	729.18	34.871	114.00	310.76	1718.97	1246.70	46.513
45.00	100.21	891.49	738,44	35.217	115.00	313.57	1730.92	1254.40	46.617
46.00	104.58	906.51	747.56	35.550	116.00	316.36	1742.90	1262.12	46.720
47.00	109.89	#21.16	756.44	35.867	117.00	319.15	1754.89	1269.87	46.822
48.00	112.88	935°35	765.02	36.166	118.00	321.94	1766.91	1277.65	46.924
49.00	116.33	949.03	773.25	36,446	119.00	324.72	1778.94	1285.45	47.024
50.00	119.15	962.22	781.13	36.708	120.00	327.50	1791.00	1293.28	47.124
								14,3020	710127
51.00	121.34	974.98	788,70	36.953	121.00	330.27	1803.08	1301.14	47.223
52.00	123.06	987.40	796:05	37.186	122.00	333.04	1815.18	1309.02	47.322
53.00	124.56	999.62	803.25	17.410	123.00	335.81	1827.30	1316.93	47.420
54.00	126.12	1011.76	812.45	37.630	124.00	338.57	1839.45	1324.87	47.517
55.00	128.07	1023.97	817-67	37.849	125.00	341.33	1851,62	1332.83	47.614
54.00	130.69	1036.35	825.06	38.072	126.00	344.09	1863.83	1340.82	47.711
57.00	134.25	1048.97	832.66	38.299	127.00	346.86	1876.06	1348.83	47.807
58.00	138.96	1061.86	840.49	38.533	128.00	349.63	1888.31	1356.86	47.903
59.00 60.00	144.98	1075-02	848.54	38.773	129.00	352.39	1900.59	1364.92	47.998
80.00	152.39	1088.39	856.77	39.016	130.00	355.16	1912.89	1373.00	48.093
61.00	155.48	1100.39	863.96	20 215	101 00	055.00			
62.00	158.56	1112.34	871.12	39.215 39.409	131.00	357.92	1925,22	1381.11	48.187
63.00	161.62	1124.24	878.27		132.00	360.69	1937.57	1389.25	48.281
64.00	164.68	1136.12	885.42	39.600 39.787	133.00	363.46	1949.95	1397.41	48.375
65.00	167.75	1147.97	892.56		134.00	366.23	1962.35	1405.59	48.468
66.00	170.83	1159.81	899.71	39.970	135.00	368.99	1974.77	1413.80	48.560
67.00	173.94	1171.63	906.85	40.150 40.328	136.00	371.76	1987.22	1422.03	48•652
68.00	177.06	1183.43	914.01	40.502	137.00	374.54 377.31	1999.70	1430.28	48.744
69.00	180.20	1195.22	921.16	40.674	138.00 139.00		2012.19	1438.56	48.835
70.00	183.35	1206.99	928.30	40.843	140.00	380.08 382.86	2024.71	1446.87	48.926
				.04.743	1-0000	382.86	2037.26	1455.19	49.017
71.00	186.36	1218.65	935.37	41.008	141.00	385.64	2049.83	1463.54	49.107
72.00	189.35	1230.28	942.43	41.170	142.00	388.42	2062.42	1471.92	49.196
73.00	192.34	1241.89	949.48	41.330	143.00	391.20	2075.04	1480.32	49.286
74.00	195.32 .	1253.47	956.52	41.487	144.00	393.99	2087.68	1488.74	49.374
75.00	198.30	1265.04	963.55	41.643	145.00	396.77	2100.34	1497.18	49.463
76.00	201.27	1276.58	970.58	41.796	146.00	399.56	2113.03	1505.65	49.551
77.00	204.24	1288.11	977.60	41.947	147.00	402.34	2125.73	1514.14	49.638
78.00	207.21	1299.63	984.63	42.095	148.00	405.13	2138.46	1522.65	49.725
79.00	210.17	1311.13	991.65	42.242	149.00	407.92	2151.22	1531.19	49.812
80.00	213.14	1322.63	998.67	42.387	150.00	410.71	2163.99	1539.75	49.898
81.00	214 22	1204 1-							
81.00 82.00	216.07	1334.12	1005.71	42.530	151.00	413.48	2176.78	1548.33	49.983
82.00	218.99	1345.61	1012.76	42.671	152.00	416.24	2189.59	1556.94	50.068
83.00	221.90	1357.10	1019.81	42.810	153.00	419.01	2202.42	1565.56	50.153
84.00 85.00	224.82	1368.59	1026.87	42.947	154.00	421.78	2215.27	1574.21	50.237
85.00	227.72	1380.08	1033.94	43.083	155.00	424.54	2228.15	1582.89	50.320
86.00 87.00	230.63	1391.58	1041.02	43.218	156.00	427.31	2241.04	1591.58	50.403
87.00 88.00	233.53	1403.08	1048.11	43.350	157.00	430.07	2253.96	1600.30	50.486
89.00	236.43	1414.59	1055-22	43.482	158.00	432.83	2266.89	1609.03	50.568
90.00	239.33	1426.10	1062.34	43.612	159.00	435.59	2279.84	1617.79	50.650
7170170	242.22	1437.63	1069.47	43.740	160.00	438.36	2292.82	1626.57	50.731

		51171141 BV		CHIDODY					5.1.5.0.0V
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE (K)	VOLUME (CC/GM)	(J/GM)	ENERGY (J/GM)	(J/GM-K)	ATURE (K)	VOLUME (CC/GM)	(J/GM)	ENERGY (J/GM)	(J/GM-K)
()	((()		(3/64)		18)	(CC/GM)		(3/6/)	
161.00	441.12	2305.81	1635.37	50.812	231.00	633.16	3254.21	2291.85	55.691
162.00	443.87	2318.83	1644.19	50.893	232.00	635.90	3268.19	2301.68	55.752
163.00	446.63	2331.86	1653.03	50.973	233.00	638.63	3282.17	2311.51	55.812
164.00	449.39	2344.91	1661.89	51.053	234.00	641.36	3296.17	2321.35	55.871
165.00	452.14	2357.98	1670.77	51,132	235.00	644.10	3310.18	2331.20	55.931
166.00	454.90	2371.07	1679.67	51.211	236.00	646.83	3324.19	2341.06	55.991
167.00	457.65	2384.18	1688.60	51.290	237.00	649.56	3338.21	2350.93	56.050
168.00	460.41	2397.31	1697.54	51.368	238.00	652.29	3352.24	2360.81	56.109
169.00	463.16	2410.45	1706.50	51.446	239.00	655.03	3366.28	2370.69	56.168
170.00	465.91	2423.62	1715.47	51,523	240.00	657.76	3380.32	2380.59	56.226
171.00	468.66	2436.80	1724.47	51.601	241.00	660.49	3394.37	2390.49	56.285
172.00	471.41	2450.00	1733.49	51.678	242.00	663.22	3408.44	2400 • 40	56.343
173.00	474.17	2463.22	1742.52	51.754	243.00	665.95	3422.50	2410.32	56.401
174.00	476.92	2476.45	1751.57	51.830	244.00	668.68	3436.58	2420.24	56.458
175.00	479.67	2489.71	1760.65	51.906	245.00	671.41	3450.66	2430.17	56.516
176.00	482.42	2502.98	1769.73	51.982	246.00	674.14	3464.75	2440.11	56.573
177.00	485.17	2516.27	1778.84	52.057	247.00	676.87	3478.84	2450.06	56.630
178.00	487.92	2529.57	1787.97	52.132	248.00	679.60	3492.94	2460.01	56.687
179.00	490.67	2542.89	1797.11	52.207	249.00	682-32	3507.05	2469.97	56.744
180.00	493.42	2556.23	1806.27	52.281	250.00	685.05	3521.16	2479.94	56.801
181.00	496.17	2569.58	1815.44	52.355	251.00	687.78	3535.28	2489.91	56.857
182.00	498.91	2582.95	1824.63	52.429	252.00	690.50	3549.40	2499.89	56.913
183.00	501.66	2596.33	1833.84	52.502	253.00	693.23	3563.53	2509.88	56.969
184.00	504.41	2609.74	1843.07	52.575	254.00	695.96	3577.66	2519.87	57.025
185.00	507-16	2623.15	1852.31	52.648	255.00	698.68	3591.80	2529.87	57.081
186.00	509.90	2636.58	1861.56	52.720 52.702	256.00	701.41	3605 • 94	2539.87	57•136 57•191
187.00 188.00	512.65 515.39	2650•03 2663•49	1870.84 1880.12	52.792 52.864	257.00 258.00	704.13 706.85	3620.09 3634.25	2549.88 2559.89	57.246
189.00	518.14	2676.96	1889.43	52.935	259.00	709.58	3648.40	2569.91	57.301
190.00	520.88	2690.45	1898.74	53.007	260.00	712.30	3662.57	2579.93	57.356
170400	720400	20/0449	1020414	, , , , , , , , , , , , , , , , , , ,	200.00	712430	5002051	221,00,0	3.0330
191.00	523.63	2703.96	1908.08	53.078	261.00	715.02	3676.73	2589.96	57.410
192.00	526.37	2717.48	1917.43	53,148	262.00	717.75	3690.90	2599.99	57.464
193.00	529.12	2731.01	1926.79	53.218	263.00	720.47	3705.08	2610.03	57.518
194.00	531.86	2744.55	1936.17	53.289	264.00	723.19	3719.26	2320.07	57.572
195.00	534.60	2758.11	1945.56	53.358	265.00	725.91	3733.44	2630.12	57.626
196.00	537.35	2771.69	1954.96	53.428	266.00	728.63	3747.63	2640.17	57.679
197.00	540.09	2785.27	1964.38	53.497	267.00	731.35	3761.82	2650.23	57.733
198.00	542.83	2798.87	1973.81	53.566	268.00	734.07	3776.02	2660.29	57.786
199.00	545.57	2812.49	1983.26	53.634	269.00	736.80	3790.22	2670.36	57.839
200.00	548.32	2826.11	1992.72	53.703	270.00	739.52	3804.43	2680.43	57.892
			10						
201.00	551.06	2839.75	2002.19	53.771	271.00	742.24	3818.64	2690.50	57.944
202.00	553.80	2853.39	2011.67	53.839	272.00	744.96	3832.85	2700.58	57.997
203.00	556.54	2867.05	2021-17	53.906 53.973	273.00	747.68	3847.07 3861.30	2710.67	58•049 58-101
204.00 205.00	559•27 562•01	2880•73 2894•41	2030•67 2040•19	54.040	274•00 275•00	750•40 753•12	3875.53	2720.76 2730.85	58•101 58•153
206.00	564.75	2908.11	2049.73	54.107	276.00	755.84	3889.76	2740.95	58.205
207.00	567.49	2921.82	2059.27	54.173	277.00	758.56	3904.00	2751.05	58.256
208.00	570.23	2935.54	2068.83	54.239	278.00	761.28	3918.25	2761.16	58.308
209.00	572.97	2949.27	2078.40	54.305	279.00	764.01	3932.50	2771.28	58.359
210.00	575.71	2963.01	2087.99	54.371	280.00	766.73	3946.76	2781.40	58.410
211.00	578.44	2976.77	2097.58	54.436	281.00	769.45	3961.02	2791.52	58.461
212.00	581.18	2990.54	2107.19	54.501	282.00	772.18	3975.29	2801.65	58.512
213.00	583.92	3004.32	2116.81	54.566	283.00	774.90	3989.57	2811.79	58.562
214.00	586.66	3018.11	2126.44	54.631	284.00	777.63	4003.86	2821.93	58.613
215.00	589.39	3031.91	2136.08	54.695	285.00	780.35	4018.15	2832.08	58.663
216.00	592.13	3045.72	2145.73	54.759	286.00	783.08	4032.45	2842.24	58.713
217.00	594.87	3059.55	2155.40	54.823	287.00	785.81	4046.75	2852.40 2862.56	58.763
218.00	597.60	3073•39 3087•23	2165.08	54.886 54.050	288.00	788.53	4061.07		58.812
219.00	600.34 603.08	3101.09	2174.76 2184.46	54.950 55.013	289.00 290.00	791•26 793•99	4075•39 4089•72	2872.74 2882.92	58•862 58•911
220.00	003400	2101009	2104840	220013	470800	1 73 0 7 7	7007012	2002 # 72	JU#711
221.00	605.81	3114.96	2194.17	55.076	291.00	796.72	4104.06	2893.11	58.961
222.00	608.55	3128.84	2203.90	55.138	292.00	799.46	4118.41	2903.30	59.010
223.00	611.28	3142.73	2213.63	55.201	293.00	802.19	4132.76	2913.50	59.059
224.00	614.02	3156.63	2223.37	55.263	294.00	804.92	4147.12	2923.71	59.107
225.00	616.75	3170.54	2233.12	55.325	295.00	807.66	4161.50	2933.93	59.156
226.00	619.49	3184.46	2242.89	55.386	296.00	810.39	4175.88	2944.15	59.204
227.00	622.22	3198.39	2252.66	55.448	297.00	813.13	4190.27	2954.38	59.253
228.00	624.96	3212.33	2262.44	55.509	298.00	815.87	4204.66	2964.61	59.301
229.00	627.69	3226.28	2272.24	55.570	299.00	818.61	4219.07	2974.86	59.349
230.00	630.43	3240.24	2282.04	55.631	300.00	821.34	4233.48	2785.10	59.397

2040	N A MUSPHO	KE I SUDAK							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	183.55	1440.75	1068.77	42.598
					92.00	185.75	1452.49	1076.06	42.727
					93.00	187.94	1464.25	1083.37	42.854
					94.00	190.13	1476.01	1090.69	42.980
					95.00	192,31	1487.78	1098.03	43.105
					96.00	194.49	1499.56	1105.39	43,228
					97.00	196.68	1511.36	1112.76	43.351
					98.00	198.86	1523.16	1120.15	43.472
					99.00	201.03	1534.98	1127.57	43.593
					100.00	203.21	1546.82	1135.00	43.712
					101.00	205.38	1558.66	1142.45	43.830
					102.00	207.54	1570.51	1149.92	43.947
					103.00	209.70	1582.38	1157.41	44.063
					104.00	211.86	1594.27	1164.92	44.178
					105.00	214.01	1606.17	1172.46	44.292
					106.00	216.16	1618.08	1180.01	44.405
					107.00	218.31	1630.01	1187.58	44.517
38.00	39.96	680.55	599.58	29,200	108.00	220.45	1641.95	1195.18	44.628
39.00	45.23	716.41	623.92	30.125	109.00	222.59	1653.91	1202.80	44.738
40.00	50.27	746.56	643.92	30.891	110.00	224.73	1665.89	1210.44	44.847
									- · · · · · ·
41.00	54.96	772.48	660.74	31.537	111.00	226.86	1677.88	1218.10	44.955
42.00	59.24	795.33	675.28	32.092	112.00	229.00	1689.89	1225.79	45.063
43.00	63.14	815.95	688.20	32,580	113.00	231.13	1701.92	1233.49	45.169
44.00	66.73	834.97	699.99	33.018	114.00	233.26	1713.96	1241.22	45.275
45.00	70.07	852.84	710.99	33.419	115.00	235.38	1726.03	1248.98	45.380
46.00	73.25	869.88	721.43	33,793	116.00	237.51	1738.11	1256.75	45.484
47.00	76.33	886.30	731.47	34.144	117.00	239.63	1750.21	1264.55	45.587
48.00	79.36	902.23	741.20	34.478	118.00	241.75	1762.32	1272.37	45.689
49.00	82.36	917.76	750.69	34.797	119.00	243.87	1774.46	1280.22	45.791
50.00	85.36	932.93	759.94	35,103	120.00	245.98	1786.62	1288.09	45.892
							1,0000	1200107	478072
51.00	88.34	947.77	768.99	35.397	121.00	248.10	1798.79	1295.98	45.992
52.00	91.29	962.29	777.83	35.680	122.00	250.21	1810.99	1303.90	46.092
53.00	94.20	976.51	786.46	35,951	123.00	252.33	1823.21	1311.84	46.191
54.00	97.04	990.44	794.90	36.213	124.00	254.44	1835.44	1319.81	
55.00	99.79	1004.08	803.14	36.464	125.00	256.55	1847.70	1327.80	46•289 46•387
56.00	102.43	1017.46	811.20	36.705	126.00	258.65			
57.00	104.96	1030.61	819.10	36.938	127.00	260.76	1860.00	1335.82	46.484
58.00	197.38	1043.55	826.86	37.163	128.00	262.86	1872.31 1884.65	1343.86	46.581
59.00	109.71	1056.31	834.50	37.381	129.00	264.96		1351.93	46.678
60.00	111.95	1068.92	842.05	37,592	130.00		1897.01	1360.03	46.774
	22200	1000472	0-2-03	314372	130.00	267.06	1909.39	1368.15	46.870
61.00	114.14	1081.43	849.54	37.797	131.00	269.16	1021 80	1274 20	045
62.00	116.32	1093.86	856.99	37.998	132.00	271.26	1921.80	1376.29	46.965
63.00	118.50	1106.24	864.42	38.195	133.00	273.36	1934.23 1946.68	1384.46	47.059
64.00	120.73	1118.59	871.85	38.388	134.00	275.45		1392.65	47.153
65.00	123.04	1130.94	879.30	38.579	135.00		1959.16	1400.87	47.247
66.00	125.44	1143.29	886.77	38.767	136.00	277.55	1971.66	1409.11	47.340
67.00	127.95	1155.64	894.26	38.953	137.00	279.65	1984.18	1417.38	47.433
68.00	130.57	1168-00	901.78	39.137		281.75	1996.73	1425.67	47.525
69.00	133.30	1180.36	909.31	39.318	138.00	283.85	2009.29	1433.98	47.617
70.00	136.12	1192.70	916.84	39.497	139.00	285.94	2021.88	1442.32	47.709
. 5400			, 10 8 0 4		140.00	288.04	2034.50	1450.69	47.800
71.00	138.43	1204.74	924:14	39.667	141.00	290 14	2047 14	1450 07	47 900
72.00	140.72	1216.74	931.42	39.835	142.00	290.14 292.24	2047.14	1459.07	47.890
73.00	143.01	1228.70	938.69	39.999			2059.79	1467.49	47.980
74.00	145.30	1240.62	945.94		143.00	294.34	2072.48	1475.92	48.070
75.00	147.58	1252.51		40.162	144.00	296.43	2085.18	1484.38	48.159
76.00	149.88		953.17	40.321	145.00	298.53	2097.91	1492.86	48.248
		1264.38	960.40	40.479	146.00	300.63	2110.65	1501.37	48.336
77.00 78.00	152.17 154.47	1276.22	967.61	40.634	147.00	302.73	2123.42	1509.89	48.424
		1289.04	974.82	40.787	148.00	304.83	2136.21	1518.44	48.511
79.00	156.78	1299.84	982.03	40.938	149.00	306.92	2149.62	1527.02	48.598
80.00	159.09	1311.63	989.23	41.087	150.00	309.02	2161.86	1535.61	48.685
01.00	161 99	1222 00	00/ 42	41 222					
81.00	161.33	1323.39	996.43	41.233	151.00	311.11	2174.70	1544.23	48.771
82.00	163.57	1335.14	1003.63	41.377	152.00	313.20	2187.57	1552.86	48.856
83.00	165.80	1346.88	1010.84	41.520	153.00	315.28	2200.46	1561.52	48.941
84.00	168.03	1358.62	1018.05	41.660	154.00	317.37	2213.36	1570.20	49.025
85.00	170.25	1370.35	1025.26	41.799	155.00	319.45	2226.29	1578.91	49.109
86.00	172.48	1382.08	1032.49	41.936	156.00	321.54	2239.24	1587.63	49.192
87.00	174.70	1393.81	1039.72	42.071	157.00	323.62	2252.20	1596.38	49.275
88.00	176.92	1405.54	1046.97	42.205	158.00	325.70	2265.19	1605.14	49.358
89.00	179.14	1417.27	1054.22	42.338	159.00	327.78	2278.19	1613.93	49.440
90.00	181.35	1429.01	1061.49	42.469	160.00	329.86	2291.22	1622.74	49.522

									ENTRORY
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL ENERGY	ENTROPY
ATURE	VOLUME	(J/GM)	FNERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	(J/GM)	(J/GM~K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/ GM /	
141 00	221 04	2204 26	1631.56	49.603	231.00	476.47	3255.16	2289.57	54.495
161.00 162.00	331.94 334.02	2304.26 2317.32	1640.41	49.684	232.00	478.52	3269.17	2299.41	54.555
163.00	336.10	2330.41	1649.28	49.764	233.00	480.58	3283.18	2309.26	54.616
164.00	338.18	2343.51	1658.17	49.844	234.00	482.63	3297.20	2319.11	54.675
165.00	340.26	2356.62	1667.08	49.924	235.00	484.69	3311.23	2328.98	54.735
166.00	342.33	2369.76	1676.00	50.003	236.00	486.74	3325.26	2338.86	54.795
167.00	344.41	2382.91	1684.95	50.082	237.00	488.79	3339.31	2348.74	54.854
168.00	346.48	2396.09	1693.92	50.161	238.00	490 • 85	3353.36	2358.63	54.913
169.00	348.56	2409.28	1702.90	50.239	239.00	492.90	3367.42	2368.54	54.972
170.00	350.63	2422.49	1711.91	50.317	240.00	494.95	3381.49	2379.45	55.031
			00	EA 204	261.00	407.00	2205 57	2388.36	55.089
171.00	352.71	2435.71	1720.93	50.394	241.00	497.00 499.06	3395.57 3409.65	2398.29	55.147
172.00	354.78	2448.96	1729.98	50.471 50.548	242.00 243.00	501.11	3423.74	2408.22	55.205
173.00	356.85	2462.22	1739.04 1748.12	50.625	244.00	503.16	3437.84	2418.16	55.263
174.00	358.92	2475.50 2488.80	1757.22	50.701	245.00	505.21	3451.95	2428.11	55.321
175.00 176.00	361.00 363.07	2502.11	1766.33	50.777	246.00	507.26	3466.06	2438.07	55.378
177.00	365.14	2515.44	1775.46	50.852	247.00	509.31	3480.18	2448.03	55.436
178.00	367.21	2528.79	1784.62	50.927	248.00	511.36	3494.30	2458.00	55.493
179.00	369.28	2542.15	1793.78	51.002	249.00	513.41	3508.43	2467.98	55.549
180.00	371.35	2555,53	1802.97	51.077	250.00	515.46	3522.56	2477.96	55.606
181.00	373.42	2568.93	1812.17	51.151	251.00	517.51		2487.95	55.663
182.00	375.48	2582.34	1821.39	51.225	252.00	519.56		2497.94	
183.00	377.55	2595.76	1830.62	51.298	253.00	521.60		2507.94	
184.00	379.62	2609.20	1839.87	51.371	254.00	523.65		2517.95	
185.00	381.69	2622.66	1849.14	51.444	255.00	525.70		2527•96 2537•98	
186.00	383.76	2636.13	1858-42	51.517	256.00	527.75		2548 • 00	
187.00	385.82	2649.62	1867.71	51.589	257.00	529.79		2558.02	
188.00	387.89	2663.12	1877.03	51.661	258.00 259.00	531.84 533.89		2568.06	
189.00	189.96	2676.63	1886.35	51.733 51.804	260.00	535.93		2578.09	
190.00	392.02	2690.16	1895.70	31.004	200.00	232013	3004020		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
101 00	394.09	2703.70	1905.05	51.875	261.00	537.98	3678.39	2588.14	56.216
191.00 192.00	396.15	2717.26	1914.42	51.946	262.00	540.03	· · · · · · · · · · · · · · · · · · ·	2598.18	
193.00	398.22	2730.83	1923.81	52.017	263.00	542.07		2608 • 23	56.325
194.00	400.28	2744.41	1933.21	52.087	264.00	544.12	3720.98	2618.29	56.379
195.00	402.35	2758.01	1942.62	52.157	265.00	546.16	3735.18	2628.35	
196.00	404.41	2771.62	1952.05	52.227	266.00	548.21	3749.39	2638.41	
197.00	406.48	2785.24	1961.49	52.296	267.00	550 • 25			
198.00	408.54	2798.88	1970.95	52.365	268.00	552.30			
199.00	410.60	2812.52	1980.41	52.434	269.00	554.34			
200.00	412.67	2826.18	1989.89	52.502	270.00	556.39	3806.26	2678.72	56-699
						42	2020 40	2490 00	56 757
201.00	414.73	2839.85	1999.38	52.571	271.00	558.43			
202.00	416.79	2853.53	2008.89	52.638	272.00	560•47 562•52			
203.00	418.85	2867.22	2018-40	52.706	273.00 274.00	564.56			
204.00	420.91	2880.93	2027.93	52.773 52.841	275.00	566.61			
205.00	422.97	2894.65 2908.37	2037•47 2047•02	52.907	276.00	568.65			
206.00	425.03 427.09	2922.11	2056.59	52.974	277.00	570.70			
207.00 208.00	429.15	2935.86	2066.16	53.040	278.00	572.74			
209.00	431.21	2949.63	2075.75	53.106	279.00	574.79			57.167
210.00	433.27	2963.40	2085.35	53.172	280.00	576.83			
				= - =					
211.00	435.33	2977.19	2094.97	53.237	281.00	578.88			
212.00	437.39	2990.99	2104.59	53.303	282.00	580.92			
213.00	439.45	3004.79	2114.23	53.368	283.00	582.97			
214.00	441.51	3018.61	2123.88	53.432	284.00	585.02			
215.00	443.57	3032.45	2133.53	53.497	285.00	587.06			
216.00	445.62	3046.29	2143.21	53.561	286.00	589.11			
217.00	447.68	3060.14	2152.89	53.625	287.00	591•16			
218.00	449.74	3074.00	2162.58	53.689	288.00 289.00	593•21 595•26			
219.00	451.80	3087.88	2172.29			597.31			
220.00	453.85	3101.76	2182.00	53.815	290.00	251021	, -7071 8 03	1-31	2.2720
221 44	455.91	3115.66	2191.73	53.878	291.00	599.36	4106.19	2391.57	57.769
221.00 222.00	457.97	3129.56	2201.47		292.00	601.41			
223.00	460.02	3143.48	2211.21	54.003	293.00	603.46			
224.00	462.08	3157.41	2220.97	54.066	294.00	605.51			
225.00	464.14	3171.34	2230.74		295.00	607.56		2932.41	
226.00	466.19	3185.29	2240.52	54.190	296.00	609.61	4178.06		
227.00	468.25	3199.24	2250.31	54.251	297.00	611.67			
228.00	470.30	3213.21	2260.11	54.312	298.00	613.72			
229.00	472.36	3227.18	2269.92		299.00	615.77			
230.00	474.41	3241.17	2279.74	54.434	300.00	617.83	4235.69	2983.63	58.205

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)	10,41,	(J/GM)	(0/Gh-K)
					,			(J/GH)	
					91.00	146.70	1432.55	1060.93	41.598
					92.00	148.48	1444.49	1068.35	41.728
					93.00	150.26	1456.43	1075.78	41.857
					94.00	152.03	1468.38	1083.22	41.985
					95.00	153.80	1480.33	1090.68	
					96.00	155.57			42.112
					97.00		1492.28	1098.16	42.237
						157.34	1504.25	1105.65	42.361
					96.00	159.10	1516.22	1113.16	42.484
					99.00	160.86	1528.20	1120.68	42.605
					100.00	162.63	1540.18	1128.22	42.726
					141 44				
					101.00	164.38	1552.18	1135.78	42.845
					102.00	166.12	1564.18	1143.35	42.963
					103.00	167.87	1576.20	1150.94	43.080
					104.00	169.61	1588.22	1158.55	43.196
					105.00	171.34	1600.26	1166.17	43.312
					106.00	173.08	1612.30	1173.81	43.426
					107.00	174.81	1624.36	1181.47	43.539
38.00	26.57	599.41	532.10	26.636	108.00	176.54	1636.43	1189.15	43.651
39.00	30.51	642.54	564.80	27.751	109.00	178.27	1648.52	1196.84	43.762
40.00	34.46	679.61	591.86	28.691	110.00	180.00	1660.61	1204.56	43.872
41.00	38.32	711.91	614.61	29.494	111.00	181.72	1672.72	1212.29	43.981
42.00	42.00	740.51	634.11	30.188	112.00	183.44	1684.85	1220.05	44.090
43.00	45.46	766.19	651.17	30.795	113.00	185.17	1696.99	1227.82	44.197
44.00	48.71	789.61	666.39	31.335	114.00	186.89	1709.15	1235.61	44.304
45.00	51.77	811.25	680.23	31.821	115.00	188.61	1721.32	1243.42	
46.00	54.66	831.49	693.04	32.264	116.00	190.32	1733.50	1251.25	44.410
47.00	57.42	850.61	705.04	32,672	117.00	192.04	1745.71		44.515
48.00	60.10	868.81	716.42	33.053	118.00			1259.10	44.619
49.00	62.71	886.26				193.76	1757.92	1266.98	44.722
50.00	65.27	903.08	727.29	33.410	119.00	195.48	1770.16	1274.87	44.825
30400	03021	303400	737.74	33.748	120.00	197.20	1782.42	1282.79	44.927
51.00	67.79	919.35	747.81	34 040	121 00	100 01	130/ /0		
52.00	70.28	935.14		34.069	121.00	198.91	1794.69	1290.72	45.029
53.00	72.71		757.56	34.375	122.00	200.63	1806.98	1298.68	45.129
		950.51	767.01	34.668	123.00	202.35	1819.29	1306.66	45.229
54.00	75.09	965.49	776.19	34.949	124.00	204.06	1831.62	1314.67	45.329
55.00	77.41	980.14	785.12	35.219	125.00	205.78	1843.97	1322.70	45.428
56.00	79.65	994.48	793.83	35.479	126.00	207.48	1856.35	1330.76	45.526
57.00	81.81	1008.55	802.34	35.730	127.00	209.18	1868.74	1338.84	45.624
58.00	83.89	1022.39	810.67	35.972	128.00	210.88	1881.16	1346.95	45.721
59.00	85.90	1036.01	818.86	36.206	129.00	212.58	1893.60	1355.09	45.818
60.00	87.84	1049.46	826.93	36.433	130.00	214.27	1906.06	1363.25	45.914
61.00	89.75	1062.76	834.91	36.653	131.00	215.97	1918.55	1371.43	46.010
62.00	91.62	1075.93	842.82	36.868	132.00	217.66	1931.05	1379.64	46-105
63.00	93.50	1089.00	850.69	37.077	133.00	219.36	1943.58	1387.87	46.200
64.00	95.39	1101.99	858.52	37,281	134.00	221.05	1956.13	1396.13	46.294
65.00	97.32	1114.90	866.34	37.481	135.00	222.74	1968.70	1404.41	46.388
66.00	99.31	1127.76	874.15	37.677	136.00	224.43	1981.29	1412.71	46.481
67.00	101.36	1140.57	881.96	37.869	137.00	226.12	1993.90	1421.04	46.574
68.00	103.48	1153.33	889.77	38.057	138.00	227.81	2006.54	1429.40	46.667
69.00	105.67	1166.04	897.56	38.242	139.00	229.50	2019.20	1437.78	
70.00	107.91	1178.69	905.34	38.424	140.00	231.19	2031.88	1446.18	46.759
-	-				2		-021100	10010	46.850
71.00	109.78	1191.13	912.90	38,599	141.00	232.88	2044.58	1454.61	44.941
72.00	111.64	1203.50	920.42	38.772	142.00	234.57			46.941
73.00	113.50	1215.82	927.91	38.941	143.00	236.25	2057.30	1463.06	47.031
74.00	115.37	1228.08	935.37	39.107			2070.04	1471.54	47.1
75.00	117.24	1240.30	942.81		144.00	237.94	2082.81	1480.03	47.211
76.00	119.12			39.271	145.00	239.62	2095.60	1488.56	47.300
		1252.48	950.24	39.433	146.00	241.31	2108.40	1497.10	47.389
77.00 78.00	121.01	1264.63	957.64	39.592	147.00	242.99	2121.23	1505.67	47.477
	122.91	1276.74	965.04	39.749	148.00	244.67	2134.08	1514.26	47.565
79.00	124.83	1288.82	972.42	39.904	149.00	246.36	2146.95	1522.87	47.652
80.00	126.75	1300.88	979.80	40.056	150.00	248.04	2159.84	1531.50	47.739
81 00	138 66	3919	002						_
81.00	128.58	1312.90	987.16	40.206	151.00	249.72	2172.74	1540.15	47.825
82.00	130.41	1324.91	994.51	40.353	152.00	251.39	2185.66	1548.82	47.910
83.00	132.22	1336.89	1001.87	40.498	153.00	253.07	2198.60	1557.51	47.995
84.00	134.04	1348.87	1009.23	40.642	154.00	254.75	2211.56	1566.23	48.080
85.00	135.85	1360.84	1016.59	40.783	155.00	256.42	2224.54	1574.96	48.164
86.00	137.67	1372.80	1023.96	40.923	156.00	258.10	2237.54	1583.71	48.248
87.00	139.48	1384.75	1031.33	41.061	157.00	259.77	2250.55	1592.49	48.331
88.00	141.29	1396.71	1038.72	41,198	158.00	261.44	2263.59	1601.28	48.414
89.00	143.10	1408.66	1046.11	41.333	159.00	263.12	2276.65	1610.10	48.497
90.00	144.91	1420.61	1053.52	41.466	160.00	264.79	2289.72	1618.94	48.579
					- · - -				

									5T.
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL ENERGY	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	(J/GM)	(J/GM~K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(3/04)	
			1427 70	48.660	231.00	382.47	3256.19	2287.33	53.565
161.00	266.46	2302.81	1627.79 1636.67	48.741	232.00	384.11	3270.22	2297.19	53.626
162.00	268.13 269.81	2315.92 2329.05	1645.57	48.822	233.00	385.76	3284.25	2307.05	53.686
163.00 164.00	271.48	2342.20	1654.48	48.903	234.00	387.41	3298.30	2316.93	53.746
165.00	273.15	2355.36	1663.42	48.983	235.00	389.05	3312.35	2326.81	53.806
166.00	274.82	2368.55	1672.37	49.062	236.00	390.70	3326.41	2336.70	53.865
167.00	276.49	2381.75	1681.34	49.141	237.00	392.34	3340.48	2346.60	53.925
168.00	278.15	2394.96	1690.34	49.220	238.00	393.99	3354.56	2356.51	53.984
169.00	279.82	2408.20	1699.35	49.299	239.00	395.63	3368.64	2366.43	54.043
170.00	281.49	2421.45	1708.38	49.377	240.00	397.28	3382.74	2376.35	54.102
				40 454	261 00	398.92	3396.84	2386.29	54.160
171.00	283.16	2434.72	1717.43	49.454	241.00 242.00	400.57	3410.94	2396.23	54.219
172.00	284.82	2448.01	1726.50	49.532 49.609	243.00	402.21	3425.06	2406.18	54.277
173.00	286.49	2461.32	1735.59 1744.69	49.686	244.00	403.86	3439.18	2416.13	54.335
174.00	288.15 289.82	2474.64 2487.98	1753.82	49.762	245.00	405.50	3453.30	2426.10	54.392
175.00 176.00	291.48	2501.34	1762.96	49.838	246.00	407.14	3467.44	2436.07	54.450
177.00	293.14	2514.71	1772.12	49.914	247.00	408.79	3481.58	2446.04	54.507
178.00	294.81	2528.10	1781.29	49.989	248.00	410.43	3495.72	2456.03	54.564
179.00	296.47	2541.51	1790.48	50.064	249.00	412.07	3509.88	2466.02	54.621
180.00	298.13	2554.93	1799.69	50.139	250.00	413.71	3524.03	2476.02	54.678
								2404 22	
181.00	299.79	2568.36	1808.92	50.213	251.00	415.36	3538.20	2486.02	54.735
182.00	301.45	2581.81	1818.16	50.287	252.00	417.00	3552.36	2496.03	54.791 54.847
183.00	303.11	2595.28	1827.42	50.361	253.00	418.64	3566.54	2506.04	54.847 54.903
184.00	304.77	2608.76	1836.70	50.435	254.00	420 • 28	3580 • 71	2516 • 06 2526 • 09	54.959
185.00	306.43	2622.25	1845.99	50.508	255.00	421.92 423.56	3594.90 3609.08	2536.12	55.014
186.00	308.09	2635.76	1855.29	50.581	256.00	425.20		2546.15	55.070
187.00	309.75	2649.29	1864.61	50.653	257.00	426.84		2556 • 19	55.125
188.00	311.41	2662.83	1873.95	50•725 50•797	258.00 259.00	428.48	3651.67	2566.24	55.180
189.00	313.07	2676.38	1883.30 1892.67	50.869	260.00	430.12		2576.29	55.235
190.00	314.73	2689.94	1072.01	20.002	20000				
191.00	316.39	2703.52	1902.05	50.940	261.00	431.76	3680.08	2586.34	55.289
192.00	318.04	2717.12	1911.44	51.011	262.00	433.40	3694.30	2596•40	
193.00	319.70	2730.72	1920.85	51.082	263.00	435.04	3708.51		
194.00	321.36	2744.34	1930.27	51.152	264.00	436.68	3722.73		
195.00	323.01	2757.97	1939.71	51.222	265.00	438.32			
196.00	324.67	2771.62	1949.16	51.292	266.00	439.96			
197.00	326.33	2785.28	1958.62	51.362	267.00	441.60			
198.00	327.98	2798.95	1968.10	51.431	268.00	443.24			
199.00	329.64	2812.63	1977.59	51.500	269.00	444.87			
200.00	331.29	2826.32	1987.09	51.568	270.00	446.51	3808.13	2011402	990112
		2844 42	1004 40	51 627	271.00	448.15	3822.38	2687.12	55.825
201.00	332.95	2840.02	1996.60	51.637 51.705	272.00	449.79			
202.00	334.60	2853.74 2867.46	2006.12	51.773	273.00	451.43			
203.00	336.26 337.91	2881.20	2025.21	51.840	274.00	453.07			
204.00 205.00	339.56	2894.95	2034.77	51.907	275.00	454.70		2727.55	56.034
206.00	341.22	2908.71	2044.34	51.974	276.00	456.34	3893.67		
207.00	342.87	2922.48	2053.92	52.041	277.00	457.98	3907.94	2747.78	
208.00	344.52	2936.26	2063.52	52.107	278.00	459.62	3922.22		
209.00	346.17	2950.05	2073.13	52.174	279.00	461.26			
210.00	347.82	2963.86	2082.75	52.239	280.00	462.90	3950.79	2778.18	56.292
							2045 00	2700 22	56.343
211.00	349.48	2977-67	2092.38	52.305	281.00	464.54 466.18			
212.00	351.13	2991.50	2102.02	52.370	282.00	467.82			
213.00	352.78	3005.34	2111.68	52.436	283.00 284.00	469.46			
214.00	354.43	3019.19	2121.34	52.500	285.00	471.10			
215.00	356.08	3033.05	2131.02	52.565 52.629	286.00	472.74			
216.00	357.73	3046.92	2140.71 2150.41	52.629	287.00	474.38			
217.00	359.38 361.03	3060•80 3074•69	2160.12	52.757	288.00	476 • 02			
218.00		3088.59		52.821	289.00	477.66			
219.00 220.00	362.68 364.33	3102.50		52.884	290.00	479.30			56.794
22000	JU-4.73	2202430		. = • = •					_
221.00	365.98	3116.42	2189.32	52,947	291.00	480.94			
222.00	367.63	3130.36		53.010	292.00	482.58			
223.00	369.28	3144.30	2208.84	53.073	293.00	484.22			
224.00	370.93		2218.62	53.135	294.00	485.87			
225.00	372.58	3172.21	2228.40	53.197	295.00	487.51			
226.00	374.23	3186.19		53.259	296.00	489.15			
227.00	375.87			53.321	297.00	490 • 79			
228.00	377.52			53.382	298.00	492 • 43 494 • 08			
229.00	379.17			53.443 53.504	299•00 300•00	495.72			
230.00	380.82	3242.17	2277.49	53.504	300400	7/2012		2,00010	· - • •

2000		the 1300MK							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	AUTINE	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/6M)	(0,0,-,,
					91.00	122,20	1424.51	1053.04	40.766
					92.00	123.71	1436.64	1060,57	40.899
					93.00 94.00	125.21	1448.76	1068.12	41.030
					95.00	126.71 128.20	1460.90	1075.69	41.159
					96.00	129.70	1473.03	1083.27	41.287
					97.00	131.19	1485.17 1497.32	1090.87	41.414
					98.00	132.68	1509.47	1098,48	41.540
					99.00	134,17	1521.63	1113.76	41.665 41.788
					100.00	135.66	1533.80	1121.42	41.911
							.,,,,,,,	*****	410411
					101.00	137.14	1545.96	1129.09	42.032
					102.00	138.61	1558.14	1136.77	42.151
					103.00	140.08	1570.31	1144,47	42.270
					104.00	141.55	1582.50	1152,19	42.387
					105.00	143.01	1594.69	1159,91	42.504
					106.00	144.47	1606.88	1167.66	42.619
38.00	22.45	545 07	407 41		107.00	145.93	1619.09	1175.41	42.734
39.00	24.60	565.87	497.61	25.434	108.00	147.39	1631.30	1183.18	42.847
40.00	26.94	597.73	523.64	26.265	109.00	148.84	1643.51	1190.97	42.959
40800	20.74	629.61	548.38	27.071	110.00	150.30	1655.74	1198.77	43.071
41.00	29.44	660.72	871 . 54	27 427	111 00		· <u>-</u>		
42.00	32.06	690.54	571.56 593.09	27.837 28.555	111.00	151.75	1667.97	1206.58	43.181
43.00	34.76	718.79	612.94	29.219	112.00	153.20	1680.22	1214.41	43.290
44.00	37.48	745.34	631.19	29.830	113.00	154.64	1692.47	1222.25	43.399
45.00	40.17	770.20	647.95	30.390	114.00	156.09	1704.73	1230.11	43.507
46.00	42.79	793.43	663,35	30.901	115.00 116.00	157.54	1717.00	1237.98	43.613
47.00	45.31	815.19	677,57	31.369	117.00	158.98	1729.28	1245.87	43.719
48.00	47.72	835.62	690.76	31.799	118.00	160.43	1741.57	1253.77	43.824
49.00	50.00	854.92	703.08	32.197	119.00	161.87	1753.87	1261.69	43.928
50.00	52.16	873.26	714.69	32.566	120.00	163.31 164.76	1766.19	1269.62	44.032
			, , , , , ,	324300	120000	104.10	1778.52	1277.58	44.134
51.00	54.23	890.80	725.70	32.912	121.00	166.20	1790.86	1285,55	44 334
52.00	56.23	907.70	736,25	33,239	122.00	167.64	1803.21	1293.54	44.236
53.00	58.18	924.08	746.43	33.550	123.00	169.08	1815.58	1301.55	44.337 44.438
54.00	60.10	940.04	756.30	33,847	124.00	170.52	1827.97	1309.58	44.538
55.00	62.02	955.68	765.95	34.134	125.00	171.97	1840.37	1317.63	44.637
56.00	63.96	971.05	775.40	34.412	126.00	173.39	1852.82	1325.73	44.736
57.00	65.92	986.19	784,69	34.681	127.00	174.82	1865.29	1333.85	44.835
58.00	67.90	1001.12	793.85	34.942	128.00	176.25	1877.78	1342.00	44.932
59.00	69.91	1015.87	802.87	35.197	129.00	177.67	1890.29	1350.17	45-030
60.00	71.93	1030.42	811.78	35.444	130.00	179.09	1902.82	1358.37	45.127
61.00	73.94	1044.70							
62.00	75.94	1044.79 1058.95	820.55	35.684	131.00	180.52	1915.37	1366.59	45.223
63.00	77.89	1072.90	829.20	35.916	132.00	181.94	1927.94	1374.84	45.319
44.00	79.78	1086.65	837.71	36.141	133.00	183.36	1940.53	1363.11	45.414
65.00	81.59	1100.18	846,09 854,34	36.358	134.00	184.78	1953.15	1391.40	45.509
66.00	83.30	1113.51	862.46	36.568	135.00	186.20	1965.78	1399.72	45.603
67.00	84.92	1126.64	870.46	36.771 36.967	136.00	187.61	1978.44	1408.06	45.697
68.00	86.43	1139.58	878.34		137.00	189.03	1991.12	1416.43	45.790
69.00	87.86	1152.37	886.13	37.156 37.340	138.00	190.45	2003.82	1424.83	45.883
70.00	89.21	1165.02	893.84	37.519	139.00 140.00	191.86 193.28	2016.55	1433.25	45.975
			- · - • • •			. 77060	2029.30	1441.69	46.067
71.00	90.82	1177.87	901 466	37.701	141.00	194.69	2042.06	1450.16	44.150
72.00	92.42	1190.63	909.43	37.879	142.00	196.11	2054.85	1458.65	46.159
73.00	94.02	1203.32	917.16	38.054	143.00	197.52	2067.66	1467.17	46.250
74.00	95.61	1215.93	924.86	38.226	144.00	198.94	2080.50	1475.71	46.340
75.00	97.21	1228.49	932.52	38.394	145.00	200.35	2093.35	1484.27	46.430 46.520
76.00	98.81	1240.98	940.15	38.560	146.00	201.76	2106.23	1492.86	
77.00	100.42	1253.42	947.75	38.724	147.00	203.18	2119.12	1501.47	46•609 46•698
78.00	102.03	1265.82	955.34	38.884	148.00	204.59	2132.03	1510.10	46.786
79.00	103.66	1278.17	962.90	39.042	149.00	206.00	2144.97	1518.75	46.874
80.00	105.28	1290.49	970,45	39.198	150.00	207.41	2157.92	1527.43	46.961
81.00	104 P4	1202 =-							
82.00	106.84	1302.76	977.96	39.350	151.00	208.82	2170.88	1536.11	47.047
83.00	108.38	1315.01	985.47	39.501	152.00	210.22	2183.86	1544.82	47-133
84.00	109.92	1327.23	992.97	39.649	153.00	211.63	2196.86	1553.54	47.219
85.00	111.46	1339.43	1000.47	39.795	154.00	213.03	2209.87	1562.29	47.304
86.00	113.00	1351.61	1007.97	39.939	155.00	214.43	2222.91	1571.05	47.389
87.00	114.54 116.08	1363.78	1015.46	40.081	156.00	215.84	2235.96	1579.84	47.473
88.00	117.61	1375.94	1022.96	40.221	157.00	217.24	2249.03	1588.65	47.556
89.00	119.15	1388.09 1400.24	1030.47	40.360	158.00	218.64	2262.12	1597.48	47.640
90.00	120.69	1412.38	1037,99	40.497	159.00	220.04	2275.22	1606.33	47.722
		4744430	1045.51	40.633	160.00	221.44	2288.35	1615.19	47.805

						encelele	ENTUAL BY	THTEOMAL	ENTROPY
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC VOLUME	ENTHALPY	INTERNAL ENERGY	(J/GM-K)
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE (K)	(CC/GM)	(J/GM)	(J/GM)	(3/G1-K)
(K)	(CC/GM)		(J/GM)		()	(CC/OH)		(gran)	
161.00	222.84	2301.49	1624.08	47.887	231.00	319.80	3257.27	2285.12	52.804
162.00	224.24	2314.65	1632.99	47.968	232.00	321.18	3271.32	2294.99	52.864
163.00	225.64	2327.83	1641.91	48.049	233.00	322.55	3285.38	2304.87	52.925
164.00	227.04	2341.02	1650.86	48.130	234.00	323.93	3299.45	2314.76	52.985
165.00	228.43	2354.24	1659.82	48.210	235.00	325.30	3313.53	2324.66	53.045
166.00	229.83	2367.47	1668.81	48.290	236.00	326.68	3327.61	2334.57	53.105
167.00	231.23	2380.71	1677.81	48.369	237.00	328.05	3341.71	2344.49	53.164
168.00	232.63	2393.98	1686.83	48.448	238.00	329.43	3355.81	2354.41	53.223
169.00	234,02	2407.26	1695.87	48.527	239.00	330.80	3369.92	2364.35	53.283
170.00	235.42	2420.55	1704.93	48.605	240.00	332.17	3384.03	2374.29	53.341
							2000 14	2204 24	53.400
171.00	236.81	2433.87	1714.00	48.683	241.00	333.55	3398.16	2384.24	53.456
172.00	238.21	2447.20	1723.10	48.761	242.00	334.92	3412.29	2394.20	53.517
173.00	239.60	2460.55	1732.22	48.838	243.00	336.29	3426.42	2404.16	53.575
174.00	240.99	2473.92	1741.35	48,915	244.00	337.66	3440.57	2414.13	53.633
175.00	242.38	2487.30	1750.50	48.992	245.00	339.04	3454.72	2424.11 2434.10	53.690
176.00	244.77	2500.70	1759.66	49.068	246.00	340.41	3468.87	2444.09	
177.00	245.16	2514.11	1768.85	49.144	247.00	341.78	3483.04	2454.09	53.805
178.00	246.56	2527.54	1778 • 05	49.220	248.00	343.15 344.52	3497.20 3511.38	2464.09	
179.00	247.95	2540.98	1787.27	49.295	249.00		3525.56	2474.10	53.919
180.00	249.34	2554.44	1796.50	49.370	250.00	345.89	3323636	24/4010	220727
	72	25/3 02	1805 75	49.445	251.00	347.26	3539.74	2484.12	53.975
181.00	250.72	2567.92	1805.75	-	252.00	348.63	3553.93	2494.14	
182.00	252.11	2581.40	1815.01	49.519 49.593		350.00			
183.00	253.50	2594.91	1824 - 30	49.666	253.00 254.00	351.37		2514.21	
184.00	254.89	2608.42	1833.59	-	255.00	352.74			
185.00	256.28	2621.96	1842.91	49.740 49.813	256.00	354.11	3610.73	2534.29	
186.00	257.67	2635.50	1852.23		257.00	355.48	3624.94		
187.00	259.05	2649.06	1861.58	49.885	258.00	356.85	_		
188.00	260.44	2662.64	1870.94	49,958 50,030		358.22			
189.00	261.83	2676.22	1880.31		259.00 260.00	359.59	_		
190.00	263.21	2689.82	1889.69	50.102	200100	337427	300.400		
101 00	264.60	2703.44	1899.10	50.173	261.00	360.96	3681.83	2584.57	54.531
191.00	265.98	2717.06	1908.51	50.244	262.00	362.32			
192.00		2730.70	1917.94	50.315	263.00	363.69			
193.00	267.37	2744.36	1927.38	50.386	264.00	365.06			
194.00	268.75	2758.02	1936.84	50.456	265.00	366.43			
195.00	270.14 271.52	2771.70	1946.31	50.526	266.00	367.80			
196.00		2785.39	1955.79	50.596	267.00	369.17		2	
197.00	272.91 274.29	2799.09	1965.29	50.665	268.00	370.53			
198.00	275.67	2812.80	1974.80	50.734	269.00	371.90			
199.00		2826.53	1984.32	50.803	270.00	373.27			
200.00	277.06	2020633	1904672	20.003	2.0000	3.364.			
201.00	278.44	2840.26	1993.85	50.872	271.00	374.64	3824.29	2685.45	55.067
202.00	279.82	2854.00	2003.39	50.940	272.00	376.00	3838.56	2695.56	55.120
203.00	281.20	2867.76	2012.94	51.008	273.00	377.37	3852.83	2705.68	55.172
204.00	282.59	2881.53	2022.51	51.075	274.00	378.74	3867.10	2715.79	55.225
205.00	283.97	2895.31	2032-09	51.143	275.00	380.11	3881.38	2725.91	55.277
206.00	285.35	2909.09	2041.68	51.210	276.00	381.48	3895.66	2736.04	55.329
207.00	286.73	2922.90	2051.28	51.277	277.00	382.84	3909.95	2746.17	55.380
208.00	288.11	2936.71	2060.90	51.343	278.00	384.21	3924.24		
209.00	289.49	2950-53	2070.52	51.410	279.00	385.58	3938.54	2766.44	
210.00	290.87	2964.37	2080.16	51.476	280.00	386.95	3952.84	2776.59	55.535
211.00	292.25	2978.21	2089.81	51.541	281.00	388.32			
212.00	293.63	2992.07	2099.47	51.607	282.00	389.68			
213.00	295.01	3005.93	2109.15	51.672	283.00	391.05			
214.00	296 • 39	3019.81	2118.83	51.737	284.00	392.42			
215.00	297.77	3033.70	2128.53	51.802	285.00	393.79			
216.00	299.15	3047.60	2138,23	51.866	286.00	395.16	-		
217.00	300.53	3061.50	2147.95	51.931	287.00	396.53			
218.00	301.90	3075.42	2157.68	51.995	288.00	397.89			
219.00	303.28	3089.35	2167.42	52.058	289.00	399.26			
220.00	304.66	3103.29	2177.17	52.122	290.00	400.63	4096.17	2878.33	56.037
						4.00	4110 50	3000 54	56 097
221.00	306.04	3117.24	2186.93	52.185	291.00	402.00			
222.00	307.42		2196.71	52.248	292.00	403.37			
223.00	308.79	3145.17	2206.49	52.311	293.00	404.74			
224.00	310.17		2216.28	52.373	294.00	406.11			
225.00	311.55		2226.09	52.435	295.00	407.46			
226.00	312.92	3187.14	2235.90	52.497	296.00	408.84			
227.00	314.30		2245.72	52.559	297.00	410.21			
228.00	315.68	3215.16	2255.56	52.621	298.00	411.56			
229.00	317.05		2265.40	52.682	299.00	412.9			
230.00	318.43	3243.22	2275.26	52.743	300.00	414.32	4240.20	2980•74	56.524

TEMPER-	SPECIFIC			ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE (K)	VOLUME (CC/BM)	(J/GH)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
**/	(((,04)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					01 00	104 74	1414 75		
					91.00 92.00	104.76	1416.75	1045.22	40.052
					93.00	106.06 107.37	1429.05 1441.36	1052-87	40-186
					94.00	108-67	1453.67	1060.54	40.319
					95.00	109.97	1465.99	1075.94	40-451
					96.00	111.27	1478.32	1083.66	40.581 40.710
					97.00	112.56	1490.66	1091.41	40.838
					98.00	113.86	1503.00	1099.18	40.964
					99.00	115.15	1515.36	1106.97	41.090
					100.00	116.44	1527.73	1114.78	41.214
					4				
					101.00	117.72	1540.08	1122.58	41.336
					102.00	119.00	1552.42	1130.39	41.458
					103.00	120.27	1564.78	1138.21	41.578
					104.00	121.54	1577.13	1146.05	41.697
					105.00	122.81	1589.48	1153.89	41.815
					106.00	124.08	1601.84	1161.75	41.932
					107.00	125.34	1614.20	1169.61	42.047
					108.00	126.60	1626.55	1177.48	42.162
					109.00	127.86	1638.91	1185.36	42.275
					110.00	129.11	1651.27	1193.25	42.388
					111.00	120 27	1642	1224	
42.00	26.71	654.56	559.64	27.346	112.00	130.37 131.62	1663.62	1201.14	42.499
43.00	28.80	682.97	580.85	28.016	113.00	132.87	1675.98	1209.04	42.610
44.00	30.91	709.83	600.23	28.634	114.00	134.12	1688.34 1700.69	1216.95	42.719
45.00	33.02	735.25	618.16	29.205	115.00	135.37	1713.05	1224.87	42.827
46.00	35.12	759.36	634.81	29.735	116.00	136.62	1725.41	1232.79	42.935
47.00	37.19	782.25	650.34	30.226	117.00	137.87	1737.78	1240.72 1248.66	43.041
48. QO	39.23	804.05	664.90	30.685	118.00	139.12	1750.14	1256.60	43-147
49.00	41.24	824.84	678.59	31.113	119.00	140.37	1762.52	1264.56	43.252
50.00	43.20	844.75	691.54	31.515	120.00	141.61	1774.89	1272.53	43.356 43.459
** **			_				2114007	4-12000	730737
51.00	45.12	863.85	703.84	31.894	121.00	142.86	1787.28	1280.51	43.561
52.00	46.99	882.23	715.57	32.251	122.00	144.11	1799.67	1288.51	43.662
53.00 54.00	48.83	899.98	726.82	32.589	123.00	145.35	1812.07	1296.52	43.763
55.00	50-62	917-17	737.64	32.911	124.00	146.60	1824.49	1304.54	43.863
56.00	52.38 54.10	933.87	748-10	33.218	125.00	147.85	1836.92	1312.59	43.963
57.00	55.80	950-12	758.24	33.511	126.00	149.08	1849.43	1320.72	44.062
58.00	57.46	966 • 00	768.11	33.792	127.00	150.31	1861.95	1328.87	44-161
59.00	59.10	981.53	777.74	34.063	128.00	151.54	1874.50	1337.05	44.260
60.00	60.72	996.77 1011.75	787.16	34.323	129.00	152.77	1887.07	1345.25	44.357
0000	004.2	1011675	796.41	34.575	130.00	154.00	1899.65	1353.47	44.455
61.00	62.32	1026.49	805.49	34.819	121 00				
62.00	63.89	1041.02	814.44	35.055	131.00 132.00	155.22	1912.26	1361.72	44.552
63.00	65.45	1055.37	823.25	35.285	133.00	156.45	1924.90	1370.00	44.648
64.00	67.00	1069.54	831.96	35.508	134.00	157.67	1937.55	1378.30	44.744
65.00	68.53	1083.56	840.56	35.725	135.00	158-90	1950.23	1386.63	44.839
66.00	70.04	1097.44	849.07	35.937	136.00	160•12 161•34	1962 . 93 1975 . 65	1394.99	44.934
67.00	71.54	1111.19	857.50	36.144	137.00	162.57	1988.40	1403.37	45.028
68.00	73.03	1124.80	865.84	36.345	138.00	163.79	2001.17	1411.78 1420.22	45.122
69.00	74.50	1138.30	874.11	36.542	139.00	165.01	2013.96	1428.68	45.215
70.00	75.96	1151.69	882.31	36.734	140.00	166.23	2026.78	1437.17	45•308 45•401
71.00	77 44	1144			•				77774
72.00	77.41	1164.97	890.44	36.923	141.00	167.45	2039.62	1445.68	45.493
73.00	78.84 80.27	1178.15	898.50	37.107	142.00	168.67	2052.48	1454.22	45.584
74.00	81.69	1191.23	906.51	37.287	143.00	169.89	2065.36	1462.79	45.675
75.00	83.10	1204.22	914.47	37.464	144.00	171.11	2078.27	1471.38	45.766
76.00	84.50	1217 . 12 1229 . 94	922.37	37.637	145.00	172.33	2091.20	1479.99	45.856
77.00	85.89	1242.69	930.22	37.806	146.00	173.54	2104.15	1488.63	45.946
78.00	87.27	1255.36	938.04 945.81	37.973	147.00	174.76	2117.11	1497.29	46.035
79.00	88.65	1267.97	953.54	38.136	148.00	175.98	2130.10	1505.98	46.124
80.00	90.03	1280.53		38.297	149.00	177.20	2143.11	1514.68	46.213
			961.25	38.455	150.00	178.41	2156.14	1523.41	46.300
81.00	91.38	1293.05	968.93	38.610	151.00	170.43	2140 34	1600	
82.00	92.73	1305.54	976.59	38.764	152.00	179.62	2169.16	1532.13	46-387
83.00	94.08	1317.98	984.24	38.915	153.00	180-83	2182.19	1540-87	46-474
84.00	95.42	1330.40	991.87	39.063	154.00	182.04 182.25	2195.25	1549.63	46.559
85.00	96.76	1342.78	999. 9	39.210	155.00	183-25	2208 • 32	1558.42	46 • 645
86.00	98.10	1355.14	1007.11	39.355	156.00	184.46 185.67	2221.41	1567.22	46.730
87.00	99.44	1367.48	1014.72	39.497	157.00	185.67 186.87	2234.52	1576.04	46.814
88.00	100.77	1379.81	1022.33	39.639	158.00	188.08	2247•64 2260•78	1584.88	46.898
89.00	102.11	1392.13	1029.95	39.778	159.00	189.29	2273.94	1593.74	46.982
90.00	103.44	1404.44	1037.58	39.916	160.00	190.49	2287.11	1602.62 1611.52	47•065 47-148
								-4-1176	47.148

							33.00	A THOSPILE	C TOOM
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
									(3/5M-K)
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	()/ ()/1-//)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
161.00	191.70	2300.31	1620.44	47.230	231.00	275.05	3258.40	2282.94	
162.00	192.90	2313.51	1629.37	47.312	232.00	2/6.23	3272.48	2292.83	52.220
163.00	194.11	2326.74	1638.33	47.393	233.00	277.42	3286.57	2302.72	52.280
164.00	195.31	2339.98	1647.30	47.474	234.00	278.60	3300.66	2312.63	52.340
165.00	196.51	2353.24	1656.29	47.554	235.00	279.78	3314.76	2322.55	52.400
166.00	197.72	2366.51	1665.30	47.634	236.00	280.96	3328.87	2332.47	52.460
167.00	198.92	2379.80	1674.33	47.714	237.00	282.14	3342.99	2342.41	52.520
				47.793		283.32	3357,12	2352.35	52.579
168.00	200-12	2393.10	1683.37		238.00				
169.00	201.32	2406.43	1692.44	47.872	239.00	284.50	3371.25	2362.30	52.638
170.00	202.52	2419.76	1701.52	47.951	240.00	285.67	3385.39	2372.26	52.697
•									
171.00	203.72	2433.12	1710.62	48.029	241.00	286.85	3399.53	2382.22	52.756
172.00	204.92	2446.49	1719.74	48.107	242.00	288.03	3413.69	2392.19	52.815
173.00	206.12	2459.88	1728.88	48.184	243.00	289.21	3427.85	2402.17	52.873
174.00	207.32	2473.29	1738.03	48.262	244.00	290.39	3442.01	2412.16	52.931
175.00	208.52	2486.71	1747.21	48.338	245.00	291.57	3456.18	2422.15	52.989
176.00	209.71	2500.14	1756.40	48,415	246.00	242.14	3470.36	2432.15	53.047
						293.92	3484.54	2442.15	53.104
177.00	210.91	2513.59	1765.60	48,491	247.00				
178.00	212.11	2527.06	1774.82	48.567	248.00	295.10	36,8.73	2452.17	53.161
179.00	213.30	2540.54	1784.06	48,542	249.00	296.28	3512.92	2462.18	53.218
180.00	214.50	2554.03	1793.32	48.717	250.00	297.45	3527.12	2672.71	53.275
181.00	215.69	2567.54	1802.59	48.792	251.00	298.63	3541.32	2482,24	53.332
182.00	216.89	2581.06	1811.87	48.867	252.00	299.81	3555.53	2492.27	53.389
183.00	218.08	2594.60	1821.18	48.941	253.00	300.98	3569.74	2502.31	53.445
184.00	219.27	2608.15	1830.49	49.015	254.00	302.16	3583.96	2512.36	53.501
			1839.83		255.00	303.33	3598.18	2522.41	53.557
185.00	220.47	2621.72		49.088					
186.00	221.66	2635.30	1849.17	49.161	256.00	304.51	3612.41	2532.46	53.613
187.00	222.85	2648.89	1858.54	49.234	257.00	305.59	3626 - 64	2542.52	53.668
188.00	224.04	2662.49	1867.91	49.307	258.00	305.86	3640.87	2552.59	53.723
189.00	225.24	2676.11	1877.30	49.379	259.00	308.04	3655.11	2562.66	53.779
190.00	226.43	2689.74	1886.71	49.451	260.00	30 + • 21	3669.35	2572.73	53.833
191.00	227.62	2703.39	1896.13	49.523	261.00	310.39	3683.59	2582.80	53.888
192.00	228.81	2717.05	1905.56	49.594	262.00	311.56	3697.84	2592.89	53.943
193.00	230.00	2730.72	1915.01	49.665	263.00	312.74	3712.09	2602.97	53.797
194.00	231.19	2744.40	1924.47	49.736	264.00	313.91	3726.35	2613.06	54.051
									54 • 105
195.00	232.38	2758.10	1933.95	49.806	265.00	315.09	3740.61	2623.15	
196.00	233.57	2771.80	1943.44	49.877	266.00	316.26	3754.87	2633.25	54.199
197.00	234.76	2785.52	1952.94	49.946	267.00	317.43	3767.13	2343.35	54.213
198.00	235.95	2799.25	1962.45	50.016	268.00	318.01	3733.40	2653.45	54.266
199.00	237.14	2813.00	1971.98	50.085	269•0 0	319.78	37)7.67	2663.56	54.320
200.00	238.33	2826.75	1981.52	50.154	270.00	320.96	3311.95	2673.67	54.373
201.00	239.52	2840.52	1991.07	50.223	271.00	322.13	3 825 +2 3	2663.79	54.426
202.00	240.71	2854.29	2000.63	50.291	272.00	323.31	3840.51	2693.91	54.478
203.00	241.89	2868.08	2010.21	50.359	273.00	324.48	3854.80	2704.03	54.531
			-			325.65	3869.09	2714.16	54.583
204.00	243.08	2881.88	2019.79	50.427	274.00				
205.00	244.27	2895.69	2029.39	50.495	275.00	326.83	3883.38	2724,23	54.635
206.00	245.45	2909.51	2039.00	50.562	276.00	328.00	3897.68	2734.42	
207.00	246.64	2923.34	2048.63	50.629	277.00	329.18	3911.98	2/44.50	54,739
208.00	247.83	2937.18	2058.26	50.696	278.00	330.35	3926.29	2754.7	54.791
209.00	249.01	2951.03	2067.91	50.762	279.00	331.52	3940.60	2764356	54.842
210.00	250.20	2964.90	2077.57	50.828	280.00	332.70	3954.91	2775.01	54.894
	•		•			•			
211.00	251.39	2978.77	2087.24	50.894	281.00	333.87	3969.23	2785.17	54.945
212.00	252.57	2992.66	2096.92	50.960	282.00	335.05	3983.56	2795.33	54.996
			2106.61	51.025	283.00	336.22	3997.89	2805.50	55.046
213.00	253.76	3006.56							
214.00	254.94	3020.46	2116.32	51.090	284.00	337.40	4012.23	2815.67	55.097
215.00	256.13	3034.38	2126.03	51.155	285.00	338.57	4026.57	2825.85	55.147
216.00	257.31	3048.31	2135.76	51.220	286.00	339.74	4040.92	2836.04	55.198
217.00	258.49	3062.25	2145.50	51.284	287.00	340.92	4055.27	2846.23	55.248
218.00	259.68	3076.20	2155.25	51.348	288.00	342.09	4069.63	2856.43	55.297
219.00	260.86	3090.16	2165.01	51.412	289.00	343.27	4084.00	2866.63	55.347
220.00	262.05	3104.12	2174.78	51.476	290.00	344.44	4098.38	2876.84	55.397
			•		-			-	
221.00	263.23	3118.10	2184.56	51.539	291.00	345.62	4112.76	2887.06	55.446
222.00	264.41	3132.09	2194.35	51.602	292.00	346.79	4127.15	2897.28	55.495
	265.50	3146.09	2204.16	51.665	293.00	347.96	4141.54	2907.51	55.544
223.00									55.593
224.00	266.78	3160.10	2213.97	51.727	294.00	349.14	4155.94	2917.75	
225.00	267.76	3174:11	2223.79	51.790	295.00	350.31	4170.35	2928.00	55.642
226.00	260.14	3138.14	2233.62	51.852	296.00	351.49	4184.77	2938.25	55.690
227.00	2.70 • 2.5	3/02.17	2243.47	51,914	297.00	352.66	4199.19	2948.51	55.739
223.00	77:-51	3016.22	2253.32	51,975	298.00	353.83	4213.52	2958.77	55.787
229.00	ى	3230.27	2263.18	52.037	299.00	359.01	4220.06	2969.04	55.335
230.00	273.87	3244,33	2273.05	52.098	300.00	355.18	4242.00	2979.32	55.883
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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
(K)	VOLUME (CC/GM)	(J/GM)	ENERGY (J/GM)	(J/GM~K)	ATURE (K)	VOLUME	(J/GM)	ENERGY	(J/GM-K)
•••			(3,04,		`~;	(CC/GM)		(J/GM)	
					91.00	91.73	1409.42	1037.63	39.424
					92.00	92.89	1421.90	1045.40	39.560
					93.00	94.04	1434.38	1053.19	39.695
					94.00	95.19	1446.87	1060.99	39.829
					95.00 96.00	96.34 97.49	1459.35 1471.84	1068.80	39.961
					97.00	98.64	1484.33	1084.48	40.092 40.221
					98.00	99.78	1496.82	1092.35	40.350
					99.00	100.93	1509.33	1100.23	40.476
					100.00	102.07	1521.83	1108.14	40.602
					101.00	103.20	1624 22	1114 02	(0.734
					102.00	104.33	1534.32 1546.80	1116.03 1123.92	40.726 40.849
					103.00	105.46	1559.28	1131.83	40.970
					104.00	106.58	1571.76	1139.75	41.091
					105.00	107.70	1584.24	1147.67	41.210
					106.00	108.82	1596.72	1155.60	41.328
					107.00	109.93	1609.19	1163.54	41.445
					108.00 109.00	111.05 112.16	1621.66	1171.48	41.560
					110.00	113.27	1634.13 1646.59	1179.43 1187.38	41.675 41.788
						223021	1040077	110.630	440,00
40.00	20. 20				111.00	114.37	1659.05	1195.34	41.901
42.00	23.78	632.53	536.14	26.519	112.00	115.48	1671.51	1203.31	42.012
43.00 44.00	25.30 26.87	657.88 682.93	555.49 574.16	27.119	113.00	116.58	1683.97	1211.28	42.122
45.00	28.50	707.48	592.06	27.696 28.247	114.00 115.00	117.69 118.79	1696.42	1219.25	42.232
46.00	30.16	731.38	609.16	28.772	116.00	119.89	1708.87 1721.33	1227.23 1235.22	42.340 42.447
47.00	31.84	754.55	625.43	29.270	117.00	120.99	1733.78	1243.21	42.554
48.00	33.55	776.94	640.90	29.741	118.00	122.09	1746.23	1251.22	42.659
49.00	35.25	798.53	655.59	30.185	119.00	123.19	1758.69	1259.23	42.764
50.00	36.95	819.32	669.56	30.605	120.00	124.29	1771.15	1267.25	42.868
51.00	38.63	839.36	682.84	31.002	121.00	125.39	1783.62	1275.28	42.971
52.00	40.29	858,69	695.51	31,377	122.00	126.49	1796.10	1283.33	43.073
53.00	41.93	877.35	707.62	31.733	123.00	127.59	1808.58	1291.39	43.174
54.00	43.53	895.40	719.23	32.070	124.00	128.68	1821.07	1299.47	43.275
55.00	45-10	912.91	730.39	32.391	125.00	129.78	1833.58	1307.56	43.375
56.00 57.00	46.63 48.14	929.92	741.17	32.697	126.00	130.87	1846.16	1315.74	43.475
58.00	49.61	946.50 962.69	751.62 761.77	32.990 33.271	127.00	131.95	1858.77	1323.94	43.575
59.00	51.06	978.54	771.68	33.541	128.00 129.00	133.03 134.12	1871.39 1884.03	1332.16 1340.41	43.674 43.772
60.00	52.49	994.10	781.37	33.802	130.00	135.20	1896.69	1348.68	43.870
61.00 62.00	53.89 55.29	1009.39	790.87	34.055	131.00	136.28	1909.38	1356.98	43.967
63.00	56.67	1024.46 1039.32	800.22 809.42	34.300 34.537	132.00	137.35	1922.08	1365.30	44.064
64.00	58.04	1054.00	818.50	34.768	133.00 134.00	138.43 139.51	1934.81 1947.55	1373.65 1382.02	44.160
65.00	59.40	1068.51	827.47	34.994	135.00	140.59	1960.32	1390.42	44•256 44•352
66.00	60.76	1082.87	836.34	35.213	136.00	141.66	1973.12	1398.85	44.446
67.00	62.11	1097.08	845.12	35.427	137.00	142.74	1985.93	1407.30	44.541
68.00	63.45	1111.15	853.81	35.636	138.00	143.81	1998.77	1415.78	44.635
69.00	64.79	1125.09	862.41	35.840	139.00	144.89	2011.63	1424.29	44.728
70•00	66.12	1138.91	870.92	36.039	140.00	145.96	2024.52	1432.82	44.821
71.00	67.44	1152.59	879.35	36.233	141.00	147.04	2037.42	1441.37	44.914
72.00	68.74	1166.16	887.71	36.423	142.00	148.11	2050.35	1449.96	45.006
73.00	70.04	1179.60	895.98	36.609	143.00	149.18	2063.30	1458.56	45.097
74.00	71.32	1192.93	904.18	36.790	144.00	150.25	2076.27	1467.19	45.189
75.00	72.58	1206.15	912.31	36.967	145.00	151.33	2089.26	1475.85	45.279
76.00 77.00	73.83	1219.27	920.36	37.140	146.00	152.40	2102.27	1484.53	45.369
78.00	75.06 76.27	1232.28 1245.21	928•36 936•30	37.310 37.476	147.00	153.47	2115.30	1493.23	45.459
79.00	77.47	1258.06	944.18	37.639	148.00 149.00	154.54	2128.35	1501.95	45.548
80.00	78.66	1270.83	952.03	37.799	150.00	155.61 156.68	2141.42 2154.50	1510.69 1519.46	45.637 45.725
						25000			770167
81.00	79.87	1283.61	959.89	37.957	151.00	157.75	2167.58	1528.21	45.813
82.00 83.00	81.07 82.27	1296.34	967.72	38,113	152.00	158.81	2180.67	1536.99	45.899
84.00	82•27 83•47	1309.03 1321.67	975.52 983.31	38.267 38.419	153.00	159.87	2193.77	1545.78	45.986
85.00	84.66	1334.27	991.09	38.568	154.00 155.00	160.94 162.00	2206.90 2220.04	1554.60	46.071 46.157
86.00	85.84	1346.85	998.85	38.715	156.00	163.06	2233.20	1563.43 1572.28	46.157 46.241
87.00	87.03	1359.40	1006.60	38.860	157.00	164.12	2246.37	1581.16	46.326
88.00	88.21	1371.92	1014.35	39.004	158.00	165.18	2259.56	1590.05	46.410
89.00	89.39	1384.43	1022.11	39.146	159.00	166.24	2272.76	1598.96	46.493
90.00	90.56	1396.92	1029.86	39.286	160.00	167.30	2285.98	1607.88	46.576

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					221 22	241 50	2250 54	2280.75	51.599
161.00	168.36	2299.22	1616.83	46.658	231.00	241.50 242.53	3259.56 3273.67	2290.66	51.660
162.00	169.42	2312.47	1625.79	46.741	232.00		3287.78	2300.58	51.721
163.00	170.47	2325.74	1634.77	46.822	233.00	243.57		2310.50	51.781
164.00	171.53	2339.03	1643.77	46.903	234.00	244.60	3301.89	2320.43	
165.00	172.59	2352.33	1652.79	46.984	235.00	245.64	3316.02	2330.37	51.901
166.00	173.65	2365.64	1661.83	47.064	236.00	246.67	3330.15	2340.32	
167.00	174.70	2378.97	1670.88	47.144	237.00	247.71	3344.29		
168.00	175.76	2392.32	1679.95	47.224	238.00	248.74	3358.44	2350+28	52.079
169.00	176.81	2405.68	1689.03	47.303	239.00	249.77	3372.60	2360 • 24	
170.00	177.87	2419.05	1698.14	47.381	240.00	250.81	3386.76	2370.22	52.139
						251 04	2400 03	2380.20	52.197
171.00	178.92	2432.45	1707.27	47.460	241.00	251.84	3400.93		
172.00	179.97	2445.87	1716.41	47.538	242.00	252.87	3415.10	2390.18	
173.00	181.03	2459.29	1725.58	47.616	243.00	253.91	3429.28	2400.18	52.373
174.00	182.08	2472.74	1734.76	47.693	244.00	254.94	3443.47	2410.18	
175.00	183.13	2486.20	1743.95	47.770	245.00	255.97	3457.66	2420.19	
176.00	184.18	2499.67	1753.17	47.847	246.00	257.00	3471.86	2430 • 20	
177.00	185,23	2513.16	1762.40	47.923	247.00	258.03	3486.06	2440.22	
178.00	186.28	2526.66	1771.64	47.999	248.00	259.07	3500 • 27	2450 • 25	
179.00	187.33	2540.18	1780.90	48.075	249.00	260.10	3514.49	2460 • 28	-
180.00	188.38	2553.71	1790.18	48.150	250.00	261.13	3528.71	2470.32	52.717
						949 74	25/2 02	2400 24	52.774
181.00	189.43	2567.26	1799.47	48.225	251.00	262.16	3542.93	2480.36	
182.00	190.48	2580.81	1808.78	48.300	252.00	263.19	3557.16	2490.41	
183.00	191.52	2594.39	1818.11	48.375	253.00	264.22	3571.39	2500 • 46	
184.00	192.57	2607.97	1827•45	48.449	254.00	265.25	3585.63	2510.52	
185.00	193.62	2621.58	1836.80	48,522	255.00	266.28	3599.87	2520.59	
186.00	194.67	2635.19	1846.17	48.596	256.00	267.31	3614.12	2530.65	
187.00	195.71	2648.82	1855.56	48.669	257.00	268.34		2540.73	
188.00	196.76	2662.46	1864.96	48.741	258.00	269.37		2550.80	
189.00	197.81	2676.11	1874.37	48.814	259.00	270.40		2560.88	
190.00	198.85	2689.77	1883.80	48.886	260.00	271.43	3671.13	2570.97	53.276
191.00	199.90	2703.45	1893.24	48.958	261.00	272.46		2581.06	
192.00	200.94	2717.14	1902.69	49.029	262.00	273.49		2591.15	
193.00	201.99	2730.85	1912.16	49.101	263.00	274.52		2601.25	
194.00	203.03	2744.56	1921.65	49.172	264.00	275.55		2611.35	
195.00	204.08	2758.29	1931.14	49.242	265.00	276.58		2621.45	
196.00	205.12	2772.03	1940.65	49.312	266.00	277.61	3756.76	2631.56	
197.00	206.16	2785.78	1950.17	49.382	267.00	278.64	3771.04	2641.67	
198.00	207.21	2799.54	1959.71	49.452	268.00	279.67	3785.33	2651.78	
199.00	208.25	2813.32	1969.25	49.522	269.00	280.70	3799.61	2661.90	
200.00	209.29	2827.10	1978.81	49.591	270.00	281.73	3813.91	2672.02	53.816
									_
201.00	210.34	2840.90	1988.38	49.660	271.00	282.76	3828.20	2682 • 15	
202.00	211.38	2854.70	1997.96	49.728	272.00	283.78	3842.50	2692.28	
203.00	212.42	2868.52	2007.56	49.796	273.00	284.81	3856.80	2702.41	
204.00	213.46	2882.34	2017.16	49.864	274.00	285.84	3871.10	2712.54	
205.00	214.50	2896.18	2026.78	49.932	275.00	286.87	3885.41	2722.68	54.079
206.00	215.54	2910.03	2036.41	49.999	276.00	287.90	3899.72	2732.83	
207.00	216.58	2923.89	2046.05	50.067	277.00	288.93	3914.04	2742.97	
208.00	217.62	2937.76	2055.70	50.133	278.00	289.96	3928.36	2753.13	
209.00	218.66	2951.64	2065.37	50.200	279.00	290.99	3942.68	2763.28	
210.00	219.71	2965.53	2075.04	50.266	280.00	292.01	3957.01	2773.44	54.337
211.00	220.74	2979.44	2084.73	50.332	281.00	293.04		2783.61	
212.00	221.78	2993.35	2094.43	50.398	282.00	294.07	3985.69	2793.78	
213.00	222.82	3007.27	2104.14	50.464	283.00	295.10	4000.03	2803.96	
214.00	223.86	3021.21	2113.86	50.529	284.00	296.13	4014.38	2814.14	54.541
215.00	224.90	3035.15	2123.59	50.594	285.00	297.16	4028.73	2824.33	54.592
216.00	225.94	3049.10	2133.34	50.658	286.00	298.19	4043.09	2834.52	54.642
217.00	226.98	3063.07	2143.09	50.723	287.00	299.22			54.692
218.00	228.02	3077.04	2152.86	50.787	288.00	300.24			54.742
219.00	229.06	3091.03	2162.63	50.851	289.00	301.27		2865.13	54.792
220.00	230.09	3105.02	2172.42	50.915	290.00	302.30			
22000	230907	2102106	,_,,		2.000				
221.00	231.13	3119.02	2182.22	50.978	291.00	303.33	4114.99	2885.58	54.891
222.00	232.17	3133.04	2192.03	51.041	292.00	304.36			
	233.21	3147.06	2201.85	51.104	293.00	305.39			
223.00	234.24	3161.09	2211.68	51.167	294.00	306.41			
224.00	235.28	3175.13	2221.52	51.229	295.00	307.44			
225.00	235.20	3189.18	2231.36	51.292	296.00	308 • 47			
226.00	210.34	3203.24	2241.22	51.354	297.00	309.50			
227.00		3217.31	2251.09	51.415	298.00	310.52			
228.00	238.39	3231.39	2260.97	51.477	299.00	311.59			
229.00	239.43	3245.47	2270.86	51.538	300.00	312.58			
230.00	240.46	JET/07!	22,0400		20000				

TEMPER-	SPECIFIC	ENTHALPY	THITPONAL	ENTERRY					
ATURE	VOLUME	(J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)	TEMPER- ATURE	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)	(3) (1)	(J/GM)	(3/0M=K)
					91.00	81 64	1402 57	1020 21	20 044
					92.00	81.64 82.68	1402.57 1415.23	1030.31	38.866
					93.00	83.72	1427.87	1046.11	39.004 39.141
					94.00	84.76	1440.50	1054.00	39.276
					95.00	85.79	1453.12	1061.91	39.409
					96.00	86.82	1465.73	1069.81	39.541
					97.00	87.85	1478.33	1077.72	39.672
					98.00	88.88	1490.93	1085.64	39.801
					99.00	89.90	1503.52	1093.56	39.929
					100.00	90.93	1516.10	1101.49	40.056
					101.00	91.95	1528.67	1109.42	40.181
					102.00	92.96	1541.24	1117.35	40-305
					103.00	93.97	1553.80	1125.30	40.428
					104.00	94.98	1566.36	1133.24	40.549
					105.00	95.98	1578.92	1141.20	40.669
					106.00	96.99	1591.47	1149.17	40.788
					107.00	97.99	1604.02	1157.14	40.905
					108.00	98.99	1616.57	1165.12	41.023
					109.00	99.98	1629,17	1173.11	41.138
					110.00	100.98	1641.67	1181.11	41.253
					111.00	101.97	1654.21	1189.12	41.366
42.00	20.99	613.99	518.54	25.911	112.00	102.96	1666.76	1197.14	41.478
43.00	22.45	638.82	536.75	26.458	113.00	103.95	1679.32	1205.17	41.590
44.00	23.92	663.11	554.37	26.988	114.00	104.94	1691.87	1213.21	41.700
45.00 46.00	25.38	686.84	571.42	27.501	115.00	105.93	1704.43	1221.26	41.809
47.00	26.85 28.27	709.75 733.14	587.32	27.986	116.00	106.92	1716.99	1229.33	41.917
48.00	29.70	755.58	604.25	28.488	117.00	107.90	1729.56	1237.40	42.025
49.00	31.12	777.17	620 . 19 635 . 26	28.960 29.405	118.00	108.89	1742.13	1245.50	42.131
50,00	32.55	797.99	649.57	29.827	119.00 120.00	109.87	1754.71	1253.60	42.237
			3.7,	27.027	120.00	110.85	1767.30	1261.72	42.342
51.00	33.97	818.13	663.21	30.226	121.00	111.83	1779.90	1269.86	42.446
52.00	35.39	837.64	676.27	30,606	122.00	112.81	1792.51	1278.01	42.549
53.00	36.79	856.60	688.82	30.968	123.00	113.80	1805.13	1286.19	42.651
54.00	38.19	875.05	700.92	31.313	124.00	114.78	1817.76	1294.38	42.753
55.00 56.00	39.57 40.93	893.04	712.62	31.643	125.00	115.76	1830.40	1302.58	42.854
57.00	42.29	910•61 927•80	723.96	31.960	126.00	116.73	1843.08	1310.83	42.955
58.00	43.62	944.62	734 . 98 745.72	32.264	127.00	117.69	1855.78	1319.10	43.055
59.00	44.94	961.13	756.20	32,556 32,837	128.00	118.66	1868.50	1327.39	43.155
60.00	46.25	977.32	766.45	33.109	129.00	119.63	1881.23	1335.71	43.254
			100143	33.104	130.00	120.60	1893.98	1344.04	43.353
61.00	47.54	993.24	776.49	33,372	131.00	121.56	1906.75	1352.40	43.451
62.00	48.81	1008.90	786.33	33.626	132.00	122.52	1919.54	1360.78	43.548
63.00	50.07	1024.31	775.99	33.872	133.00	123.49	1932.35	1369.19	43.645
64.00	51.32	1039.50	802.49	34.111	134.00	124:45	1945.17	1377.62	43.741
65.00 66.00	52.56	1054.48	814.83	34.343	135.00	125.41	1958.02	1386.07	43.837
67.00	53 .78 54 . 99	1069.26	824.04	34.568	136.00	126.37	1970.88	1394.54	43.933
58.00	56.19	1083.85 1098.27	833.11	34.788	137.00	127.33	1983.76	1403.04	44-027
69.00	57.38	1112.53	842.07 850.91	35.001 35.209	138.00	128.30	1996.67	1411.56	44.122
70.00	58.56	1126.64	859.64	35.412	139.00 140.00	129.26 130.22	2009.59 2022.53	1420.10	44.216
71						0 = 4 2	202201	1428.66	44.309
71.00 72.00	59.72	1140.61	868.28	35.611	141.00	131.18	2035.49	1437.25	44.402
73.00	60.88	1154.44 1168.16	876.83	35.804	142.00	132.13	2048.47	1445.86	44.494
74.00	62•04 63•18	1181.76	885.30	35.994	143.00	133.09	2061.47	1454.50	44.586
75.00	64.31	1195.26	8 93.69 902.01	36.179	144.00	134.05	2074.48	1463.15	44.678
76.00	65.44	1208.66	910.27	36.360 36.538	145.00	135.01	2087.52	1471.83	44.768
77.00	66.56	1221.97	918.48	36.712	146.00	135.97	2100.57	1480.53	44.859
78.00	67.67	1235.20	926.64	36.883	147.00 148.00	136.93	2113.65	1489.25	44.949
79.00	68.78	1248.36	934.75	37.051	149.00	137.88	2126.74	1497.99	45.038
80.00	69.88	1261.46	942.83	37.215	150.00	138.84 139.80	2139.84 2152.97	1506.75 1515.53	45•127 45•216
01 00	70.07						,		474510
81.00 82.00	70 •97 72 • 06	1274.49 1287.46	950.87	37.377	151.00	140.75	2166.09	1524.31	45.303
83.00	73.14	1300.39	958.88 966.87	37.536	152.00	141.70	2179.23	1533.12	45.390
84.00	74.22	1313.27	974.84	37.693 37.847	153.00	142.65	2192.38	1541.94	45.477
85.00	75.29	1326.12	982.79	37.999	154.00	143.59	2205.55	1550.78	45.563
86.00	76.36	1338.93	990.73	38.148	155.00 156.00	144.54	2218.74	1559.65	45.649
87.00	77.42	1351.71	998.66	38.296	157.00	145.49 145.44	2231.94	1568.53	45.734
88.00	78.48	1364.46	1006.58	38.441	158.00	147.33	2245.16 2258.40	1577.43 1586.35	45.818
89.00	79.54	1377.18	1014.50	38.585	159.00	148.33	2271.65	1595.28	45.902 45.986
90.00	80.59	1389.89	1022.41	38.726	160.00	149.27	2284.91	1604.24	46.069

TEMPER-	SPECIFIC VOLUME	ENTHALPY (U/GM)	INTERNAL ENERGY	ENTROPY (376M-K)	1: MPF := 	52601610 106 97 1001691		INTERNAL TALKET	NTROPT 12 CM
(K)	(୯୯ / ୯୬)		(JZSM)		LA,	111 (34)			
161.00	150.22	2298,30	1613.21	40.162	. 5 (.)	215,41	S1 5.17	224,236	11.105
162.00	151.16	2311.49	1672.27	45.17	3 (2.3%)	216 a 2	1.4.58	2.55.01	* 1. 100
163.00	152.11	2324.81	1531.21	40.319	2.33.00	217.0	508 9. 02	2398.44	51.22 0
164.00	153.05	2339.13	1640.24	46.305	21 .0€	210.17	3303*16	2309.37	51.267
165.00	153.99	2351.48	1649.29	46.419	∑ to•00	219• 19	3317.01	2313432	51.347
166.00	154.94	2364.34	1558.35	46.560	2 :5.00	2:0.01	3331.46	2528.27	51.407
167.00	155.88	2378.21	1667.43	46.640	237.00	220.95 221.65	3345.62 3359.79	2338.24 2348.21	51.407 51.526
168.00	156.82	2391.60	1675.53 1685.65	46.720 46.799	233.00 217.00	202.77	2373.96	2395.19	51.586
169.00 170.00	157.76 158.70	2405.01 2418.43	1494.78	46.878	2.0.00	223.69	3386.15	2358.17	51.6-5
1.000				. •					
171.00	159.64	2431.87	1703.94	46.757	241.00	224.61	2402.14	2 17 • 1	51.00
172.00	160.58	2445.32	1713.11	47.035	242.00	225.13	3414.54 343.1.34	2 - 3 • 17	51.762 51.821
173.00	161.52	2458.80	1732.30	47.113 47.191	243.00 244.00	236 227 . 37	344 - 194	2+4:17	61.879
174.00	162.46 163.40	2472.28 2485.78	1731.51	47.268	245.00	20a.29	3457416	3412 72	
175.00 176.00	164.33	2499.30	1749.98	47.345	245.00	239.21	3471036	7 +75 + 23	51.595
177.00	165.27	2512.83	1759.23	41.423	247.00	230 13	3467.50	_435 a 3 a	52, 553
178.00	166.21	2526.37	1768.51	47.498	248.00	251.05	3501.84	2-48.32	.210
179.00	167.14	2539.93	1777.80	47.574	249.00	201696	3516.07	2458.37	52,167
130.00	168.08	2553.50	1787.10	47.649	250.00	232,48	5530 • 31	2458.43	1 1 1 24
101 00	169.01	2567, 19	1796.43	47.724	251.00	233.80	3544.56	1478,49	5128.1
191.00 182.00	169.95	2580.69	1805.76	47,799	252.00	234.72	3598.81	.968.55	52.335
183.00	170.88	2594.30	1815.12	47.874	253.00	235.64	3573.06	2498.62	52.394
184.00	171.81	2607.23	1824.48	47,949	254.00	236.55	3587.32	2508.69	22,450
185.no	172.75	2621.57	1833.87	48.022	255.00	237.47	3601.58	2513.77	52,506
186.00	173.68	2635.22	1843.26	48.095	256.00	238.33	3615.85	2528.36	52.562
187.00	174.61	2648.89	1852.67	48.169	257.00	239.31	3630 - 12	2538.90	52.618
188.00	175.55	2662.57	1862.10	48.242	258.00	240.22	3644+39	2549.00	52.673
189.00	176.48	2675.26	1971.54	48.314	259.00	241.14	3658 • 67	2559+13	52.729
190.00	177.41	2689 •96	1830.99	48.396	260.00	242.06	3572.95	2569.23	52.784
191.00	178.34	2703.68	1890.46	48.458	261.00	242.97	3687.23	2 579.3 3	52.859
192.00	179.28	2717.40	1899.94	48.530	262.00	243.89	3701.52	2589.44	52.893
193.00	180.21	2731.14	1909.43	48.601	253.00	2/4.81	3715.81	2599.55	52.948
194.00	181.14	2744.89	1918.94	48.672	264.00	24%.72	3730.10	2609.66	53.002
195.00	182.07	2758 • 66	1928.46	48.743	265.00	246.64	3744.39	2619.77	53.056
195.00	183.00	2772.43	1937.99	48.814	266.00	247.55	3753.69	2629.89	53,110
197.00	183.93	2786.22	1947,54	48.884	267.00	248.47	37 7 2•99 3787•29		53.164 53.218
198.00	184.86	2800.01	1957.10 1966.66	48.954 49.023	268 • 00 269 • 00	249.39 250.30	3301.59		53.271
199.00 200.00	185.79 185.72	2813.82 2827.64	1976.25	49.093	270.00	251.22	3815.90		53.324
200400	1034.2	23.1831		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.500	*****			
201.00	187.65	2841.46	1985.83	49,161	271.00	252.13	3830.21	2680.53	53.377
202.00	185.58	2855.29	1995,43	49,230	272.00	253.05	3844.52		53.430
203.00	189.50	2869.13	2005.04	49.299	273.00	253.96	3859,8~	2700.61	53.483 53.535
204.00	190.43	2882.09	2014.66	49.367	274•00 275•00	254.88 255.80	3873↓15 5837•48	2710.96 2721.10	53.588
205.00 206.00	191.36 192.29	2896.85 2910.72	2024.30 2033.94	49.434 49.502	276.00	256.71	3901.80	2731.25	53.640
207.00	193.21	2924.61	2043.60	49.569	277.00	257.63			53.692
208.00	194.14	2938.50	2053.26	49.635	278.00	258.54			53.743
209.00	195.07	2952.41	2062.94	49.703	279.00	259.46	3944.80	2761.73	53.795
210.00	195.99	2965.32	2072.63	49.769	280.00	260.37	3959•14	2771.90	53.846
211.00	196.92	2980.25	2082.33	49.835	281.00	261.29	3973.48	2782.07	53.898
212.00	197.85	2994.18	2092.04	49.901	282.00	262.21			53.949
213.00	198.77	3008.13	2101.77	49.967	283.00	263.12	4002.18		54.000
214.00	199.70	3022.08	2111.50	50.032	284.00	264.04	4016.54		54.050
215.00	200.62	3036.05	2121.25	50.097	285.00	264.95	4030.90	2822.80	54.101
216.00	201.55	3050.02	2131.00	50.162	286.00	265.87	4045.27		54.151
217.00	272.47	3064.00	2140.77	50.227	287∙00	266.78	4059 • 65		54.201
218 00	203.40	3078•00	2150.55	50.291	288.00	267.70			54.251
219.00	204.32	3092.00	2160.33	50.355	289.00	268.61			54.301 54.351
220.00	205.25	3105.01	2170.13	50.419	290.00	269.53	4102.82	2873.86	54.351
221.00	206.17	3120.04	2179.94	50.483	291.00	270.44			
222.00	207.10	3134.07	2189.76	50.546	292.00	271.35			
223,00	208.02	3148.11	2199.59	50.609	293.00	272.27			
224.00	208.94	3162.16	2209.43	50.672	294.00	273.19			54.548 s: 564
225.00	209.87	3176.22	2219.28	50.734	295.00	274.10			
226.00	210.79	3190.79	2229.14	50.797	296.00	275.91 275.93	4189.35 4203.80		
227.00	211.71 212.64	3204.37 3218.46	2239.01 2248.89	50.859 50.921	297 . 00 298.00	275.93 276.84			
228.00 229.00	213.56	3232.55	2258.73	50.982	299.00	277.75			နည်္သို့ ခဲ့ခဲ့က္
230.00	214.48	3246.66	2268.68	51.044	300.00	278.67			54, 28
C 2 / E (1/2	214570	22,0000		 - · ·	. ***		-		

2040	N MINOSPILE	NE SUUMA							
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(JASM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)	137047	(J/GM)	(3/GM-K)
*****			(3.3.1)		107	(CC/GM)		(J/GM)	
					91.00	73.61	1395.69	1022.74	29 240
					92.00	74.56	1408.50		38.360 38.500
					93.00	75.51		1030.73	
					943 00		1421.29	1038.73	38.638
						76.45	• •	1046.73	38.775
					95.00	77.39	1446.83	1054.74	38.910
					96.00	78.32	1459.59	1062.75	39.043
					97.00	79.26	1472.34	1070.76	39.175
					98.00	80.19	1485.09	1078.79	39.306
					99.00	81.12	1497.83	1086.82	39.435
					100.00	82.05	1510.57	1094.86	39.563
					101.00	82.97	1523.28	1102.90	39.690
					102.00	83.90	1536.00	1110.94	39.815
					103.00	84.81	1548.70	1118.98	39.939
					104.00	85.73	1561.40	1127.03	
					105.00	86.64			40.061
							1574.10	1135.09	40.183
					106.00	87.55	1586.79	1143.16	40.303
					107.00	88.46	1599.47	1151.23	40.421
					108.00	89.37	1612.15	1159.30	40.539
					109.00	90.27	1624.83	1167.39	40.656
					110.00	91.18	1637.50	1175.48	40.771
					111.00	92.08	1650.17	1183.57	40.886
					112.00	92.98	1662.84	1191.67	40.999
					113.00	93.87	1675.50	1199.78	41.111
					114.00	94.77	1688.16	1207.90	41.222
					115.00	95.66	1700.82	1216.02	41.333
46.00	24,59	693.80	569.23	27.361	116.00	96.56	1713.48	1224.16	41.442
47.00	25.75	716.35	585.92	27.843	117.00	97.45			
48.00	26.94	738.21	601.79	28.301	118.00	98.34	1726.14	1232.30	41.550
49.00	28.13	759.43	616.94	28.738			1738.80	1240.45	41.658
50.00	29,34	780.06			119.00	99.23	1751.47	1248.61	41.764
20.00	27874	100400	631.43	29,154	120.00	100.12	1764.13	1256.78	41.870
51.00	30.55	800 14	. 46 22	20 552	100 00				
		800.14	645.33	29.552	121.00	101.01	1776.80	1264.96	41.975
52.00	31.77	819.72	658.71	29.932	122.00	101.90	1789.48	1273.16	42.079
53.00	32.99	838.83	671.62	30.297	123.00	102.78	1802.16	1281.37	42.182
54.00	34.21	857.50	684.10	30.646	124.00	103.67	1814.85	1289.59	42.284
55.00	35.43	875.76	696.20	30.981	125.00	104.56	1827.55	1297.83	42.386
56.00	36 • 64	893.65	707.95	31.304	126.00	105.43	1840.31	1306 • 13	42.487
57.00	37.85	911.18	719.38	31.614	127.00	106.31	1853.08	1314.44	42.588
58.00	39.05	928.37	730.52	31.913	128.00	107.19	1865.86	1322.78	42.689
59.00	40.23	945.26	741.40	32,201	129.00	108.06	1878.66	1331.13	42.788
60.00	41.41	961.85	752.03	32.480	130.00	108.93	1891.47		
	- •	*****		324.00	130000	100073	1071041	1339.50	42.887
61.00	42.58	978.17	762.45	32.750	121 00	100 91	100/- 20	1217.00	
62.00	43.74	994.23	772.65	33.011	131.00	109.81	1904.30	1347.90	42.986
63.00	44.88	1010.04	782.67		132.00	110.68	1917.15	1356.31	43.084
64.00				33.263	133.00	111.55	1930.01	1364.75	43.181
	46.02	1025.63	792.51	33.509	134.00	112.42	1942.89	1373.21	43.278
65.00	47.14	1041.00	802.19	33.747	135.00	113.29	1955.79	1381.69	43.374
66.00	48.25	1056.16	811.72	33.978	136.00	114.16	1968.70	1390•19	43.470
67.00	49.36	1071.14	821.11	34.203	137.00	115.03	1981.64	1398.72	43.565
68.00	50.45	1085.93	830.36	34.422	138.00	115.90	1994.59	1407.27	43.660
69.00	51.53	1100.55	839.49	34.635	139.00	116.77	2007.56	1415.84	43.754
70.00	52.60	1115.01	848.51	34.843	140.00	117.64	2020.55	1424.43	43.848
71.00	53.66	1129.31	857.42	35.046	141.00	118.50	2033.56	1433.04	43.941
72.00	54.72	1143.48	866.23	35.244	142.00	119.37	2046.58	1441.68	44.033
73.00	55.77	1157.51	874.95	35,438	143.00	120.24	2059.63	1450.34	44.126
74.00	56.81	1171.42	883.58	35,627	144.00	121.11	2072.69	1459.02	_
75.00	57.84	1185.21	892.14	35.813	145.00	121.97	2085.77		44.217
76.00	58.87	1198.89	900-62	35.994	146.00			1467.72	44.308
77.00	59.89	1212.47				122.84	2098.87	1476.45	44.399
78.00	60.90	1225.96	909•03 917•38	36.172 36.346	147.00	123.71	2111.99	1485.19	44.489
79.00					148.00	124.57	2125.13	1493.96	44.579
	61.91	1239.36	925.68	36.517	149.00	125.44	2138.28	1502.75	44.668
80.00	62.92	1252.69	933.93	36.685	150.00	126.30	2151.45	1511.55	44.757
	/3								
81.00	63.91	1265.93	942.14	36.849	151.00	127.16	2164.61	1520.36	44.845
82.00	64.91	1279.12	950.30	37.011	152.00	128.02	2177.80	1529.19	44.932
83.00	65.89	1292.24	958.43	37.170	153.00	128.88	2190.99	1538.04	45.019
84.00	66.87	1305.31	966.53	37.327	154.00	129.73	2204.21	1546.92	45.106
85.00	67.85	1318.33	974.61	37.481	155.00	130.59	2217.44	1555.81	45.191
86.00	68.82	1331.30	982.66	37.633	156.00	131.45	2230.69	1564.71	45.277
87.00	69.79	1344.24	990.70	37.782	157.00	132.30	2243.96	1573.64	45.362
88.00	70.75	1357.14	998.72	37.930	158.00	133.16	2257.24	1582.59	
89.00	71.71	1370.02	1006.73	38.075	159.00	134.01			45.446
90.00	72.66	1382.86	1014.74	38.219			2270.54	1591.56	45.530
	400	1-02-00	1014014	JU 6 4 1 7	160.00	134.87	2283.85	1600.55	45.614

									545000V
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY (J/GM)	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
161.00	135.72	2297.19	1609.56	45,697	231.00	194.53	3262.01	2276.44	50.662
162.00	136.57	2310.53	1618.58	45.780	232.00	195.36	3276.15	2286.36	50.723
163.00	137.43	2323.90	1627.63	45.862	233.00	196.19	3290.29	2296.30	50.783
164.00	138.28	2337.28	1636.69	45.944	234.00	197.02	3304.44	2306.24	50.844
165.00	139.13	2350.67	1645.77	46.025	235.00	197.85	3318.60	2316.19	50.904
166.00	139.98	2364.09	1654.87	46.106	236.00	198.68	3332.77	2326.15	50.964
167.00	140.83	2377.52	1663.99	46.187	237.00	199.51	3346.94	2336.13	51.024
168.00	141.68	2390.96	1673.13	46.267	238.00	200.34	3361.13	2346.11	51.084
169.00	142.53	2404.42	1682.29	46.347	239.00	201.17	3375.32	2356.10	51.143
170.00	143.38	2417.90	1691.47	46.426	240.00	202.00	3389.53	2366.10	51.202
						00	2122 21	227/ 11	es 2/3
171.00	144.23	2431.39	1700.67	46.505	241.00	202.83	3403.74	2376.11	51.261
172.00	145.08	2444.91	1709.88	46.584	242.00	203.66	3417.96	2386.13	51.320
173.00	145.92	2458.44	1719.12	46.662	243.00	204.49	3432.18	2396.16	51.379
174.00	146.77	2471.99	1728.38	46.740	244.00	205.32	3446.42	2406.19	51.437
175.00	147.62	2485.55	1737.65	46.818	245.00	206.15	3460.66	2416.23	51.495
176.00	148.46	2499.12	1746.94	46.895	246.00	206.98	3474.91	2426.28	51.553
177.00	149.31	2512.71	1756.24	46.971	247.00	207.81	3489.16	2436.34	51.611
178.00	150.15	2526.32	1765.56	47.048	248.00	208.63	3503.42	2446.40	51.668
179.00	151.00	2539.94	1774.90	47.124	249.00	209.46	3517.68	2456.47	51.726
180.00	151.84	2553.57	1784.26	47.200	250.00	210.29	3531.95	2466.55	51.783
101 00	152 60	2547 21	1793.63	47.275	251.00	211.12	3546.23	2476.63	51.839
181.00	152.69	2567.21			252.00	211.94	3560.51	2486.72	51.896
182.00	153.53	2580.87	1803.01	47.350	253.00	212.77	3574.79	2496.81	51.953
183.00	154.37	2594.55	1812.41	47.425	254.00	213.60	3589.08	2506.91	52.009
184.00	155.22	2608.23	1821.82	47.499		214.42	3603.37	2517.01	52.065
185.00	156.06	2621.93	1831.25	47.573	255.00	215.25	3617.67	2527.12	52.121
186.00	156.90	2635.64	1840.69	47.647	256.00		3631.97	2537.23	52.177
187.00	157.74	2649.36	1850.15	47.720	257.00	216.08 216.90		2547.34	52.232
188.00	158.59	2663.09	1859.62	47.793	258.00		3646.27		52.287
189.00	159.43	2676.83	1869.10	47.866	259.00	217.73	3660.57	2557.46	52.343
190.00	160.27	2690.59	1878.59	47.939	260.00	218.56	3674.87	2567.58	22.343
191.00	161.11	2704.35	1888.10	48.011	261.00	219.38	3689.18	2577.70	52.398
192.00	161.95	2718.13	1897.61	48.082	262.00	220.21	3703.49	2587.82	52.452
	162.79	2731.91	1907.14	48.154	263.00	221.03	3717.80	2597.95	52.507
193.00 194.00	163.63	2745.71	1916.69	48.225	264.00	221.86	3732.11	2608.08	52.561
195.00	164.47	2759.51	1926.24	48.296	265.00	222.69	3746.43	2618.21	52.615
		2773.33	1935.80	48.366	266.00	223.51	3760.74	2628.34	52.669
196.00	165.31 166.15	2787.15	1945.37	48.437	267.00	224.34	3775.06	2638.47	52.723
197.00	166.99	2800.98	1954.96	48.507	268.00	225.16	3789.37	2648.61	52.777
198.00 199.00	167.83	2814.82	1964.55	48.576	269.00	225.99	3803.69	2658.74	52.830
200.00	168.66	2828.67	1974.15	48.646	270.00	226.81	3818.01	2668.88	52.884
200.00	100,00	2020401	17.4615	40,040	2.000	2200-2	,,,,,,,,,		
201.00	169.50	2842.52	1983.75	48.715	271.00	227.64	3832.33	2679.02	52.937
202.00	170.34	2856.37	1993.36	48.784	272.00	228.46	3846.65	2689.16	52.990
203.00	171.18	2870.23	2002.98	48.852	273.00	229.29	3860.97	2699.30	53.042
204.00	172.01	2884.10	2012.61	48.920	274.00	230.11	3875.30	2709.44	53.095
205.00	172.85	2897.98	2022.25	48,988	275.00	230.94	3889.62	2719.59	53.147
206.00	173.69	2911.87	2031.89	49.056	276.00	231.76	3903.95	2729.74	53.200
207.00	174.52	2925.76	2041.55	49.123	277.00	232.59	3918.28	2739.89	53.252
208.00	175.36	2939.66	2051.22	49,190	278.00	233.41	3932.61	2750.04	53.304
209.00	176.20	2953.58	2060.90	49.257	279.00	234.24	3946.95	2760.20	53.355
210.00	177.03	2967.50	2070.58	49.324	280.00	235.06	3961.29	2770.36	53.407
						200 60	2075 (2	2700 50	69 460
211.00	177.87	2981.43	2080.28	49.390	281.00	235.89	3975.63	2780.53	53.458
212.00	178.70	2995.37	2089.99	49.456	282.00	236.71	3989.98	2790.70	53.509
213.00	179.54	3009.32	2099.71	49.522	283.00	237.54		2800.87	
214.00	180.37	3023.27	2109.43	49.587	284.00	238.36	4018.69	2811.05	53.611
215.00	181.21	3037.24	2119.17	49.653	285.00	239.19		2821.24	
216.00	182.04	3051.21	2128.92	49.717	286.00	240.01	4047.42	2831.43	
217.00	182.87	3065.20	2138.68	49.782	287.00	240.84		2841.64	53.762
218.00	183.71	3079.19	2148.45	49.847	288.00	241.66	4076.18	2851.85	53.812
219.00	184.54	3093.20	2158.23	49.911	289.00	242.49		2862.07	
220.00	185.38	3107.21	2168.02	49.975	290.00	243.31	4104.98	2872.29	53.912
221 60	106 21	2121 26	2177 97	50 029	201.00	244.13	4119.39	2882.53	53.961
221.00	186.21	3121.24	2177.82	50.038	291.00			2892.78	54.010
222.00	187.04	3135.27	2187.64	50.102 50.165	292.00	244.96	4133.81	2903.04	54.060
223.00	187.88	3149.31	2197.46	50.165	293.00	245.78	4148.24		54.109
224.00	188.71	3163.37	2207.29	50.228	294.00	246.60	4162.68	2913.31	
225.00	189.54	3177.43	2217.14	50.291	295.00	247.43	4177.14	2923.59	
226.00	190.37	3191.50	2227.00	50.353	296.00	248.25	4191.60	2933.88	54.206
227.00	191.20	3205.59	2236.86	50.415	297.00	249.07		2944.18	54•254 54•303
228.00	192.04	3219.68	2246.74	50.477	298.00	249.90 250.72	4220.56	2954.50	54.351
229.00	192.87	3233.78	2256.63	50.539	299.00	250.72	4235.06	2964.83	
230.00	193.70	3247.89	2266.53	50.600	300.00	251.54	4249.57	2975.17	54.399

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	forciero	ENT. LA DV	Intronal	5050aau
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	67.08	1389.18	1015.32	37.893
					92.00	67.96		1023.44	38.040
					93.00	68.82	1415.10	1031.56	38.180
					94.00	69.69	1428.04	1039.68	38.318
					95.00	70.55	1440.97	1047.81	38.455
					96.00	71.41	1453.89	1055.94	38.590
					97.00	72.26	1466.81	1064.09	38.723
					98.00	73.12	1479.72	1072.24	38.855
					99.00 100.00	73 . 97 74 . 82		1080.40	38.986
					200400	14,02	1505.53	1088.58	39.115
					101.00	75.66	1518.41	1096.73	39.243
					102.00	76.51	1531.28	1104.89	39.369
					103.00	77.35	1544.14	1113.06	39.494
					104.00	78.19	1556.99	1121.23	39.618
					105.00 106.00	79.02	1569.83	1129.40	39.741
					107.00	79.86 80.69	1582.66 1595.48	1137.57 1145.74	39.862
					108.00	81.52	1608.29	1153.92	39.982 40.101
					109.00	82.35	1621.09	1162.09	40.218
					110.00	83.17	1633.88	1170.27	40.335
42.00	18.35	605.01	501.91	25,405	111.00	84.00	1646.66	1178.45	40.450
43.00	19.59	622.39	512.38	25.677	112.00 113.00	84.82	1659.44	1186.62	40.564
44.00	20.77	641.43	525.12	26.024	114.00	85.64 86.46	1672.20	1194.80	40.677
45.00	21.88	661.54	539.33	26.421	115.00	87.28	1684.95 1697.70	1202.98 1211.16	40.790
46.00	22.95	682.26	554.38	26.846	116.00	88.10	1710.44	1219.35	40.901 41.011
47.00	23.97	703.23	569.80	27.285	117.00	88,92	1723.17	1227.53	41.120
48.00	24.97	724.20	585.23	27.724	118.00	89.73	1735.90	1235.72	41.228
49.00	25.96	744.97	600.45	28.157	119.00	90.55	1748.62	1243.91	41.335
50.00	26.94	765.43	615.29	28,578	120.00	91.36	1761.34	1252.11	41.441
51.00	27.93	785.50	629.65	28.983	121.00	92.17	1774.06	1260.32	41.546
52.00	28.94	805.13	643.49	29.371	122.00	92.98	1786.78	1268.53	41.651
53.00	29.97	824.32	656.80	29.741	123.00	93.79	1799.50	1276.75	41.755
54.00	31.01	843.06	669.61	30.094	124.00	94.60	1812.23	1284.99	41.858
55.00	32.08	861.39	681.94	30.430	125.00	95.41	1824.96	1293.23	41.960
56.00	33.16	879.32	693.85	30.751	126.00	96.21	1837.76	1301.55	42.062
57.00	34.26	896.89	705.37	31.058	127.00	97.01	1850.58	1309.89	42.163
58.00 59.00	35.37 36.49	914.14	716.58	31.354	128.00	97.81	1863.41	1318.25	42.264
60.00	37.61	931.09 947.78	727.50 738.20	31.639	129.00	98.61	1876.26	1326.63	42.364
000.70	37.001	241410	130.20	31.914	130.00	99•41	1889.12	1335.02	42.464
61.00	38.71	964.23	748.70	32.182	131.00	100.21	1901.99	1343.44	42.563
62.00	39.81	980.47	759.04	32.442	132.00	101.01	1914.88	1351.88	42.661
63.00	40.89	996.52	769.25	32.696	133.00	101.80	1927.79	1360.34	42.759
64.00	41.95	1012.38	779.33	32.945	134.00	102.60	1940.72	1368.82	42.856
65.00	42.98	1028.07	789.30	33.188	135.00	103.39	1953.66	1377.32	42.952
66.00 67.00	43.99 44.98	1043.59	799.17	33.426	136.00	104.19	1966.62	1385.85	43.048
68.00	45.94	1058.95 1074.15	808.93	33.659	137.00	104.98	1979.60	1394.40	43.144
69.00	46.89	1089.19	818.59 828.13	33.887 34.109	138.00	105.78	1992.60	1402.97	43.239
70.00	47.82	1104.06	837.57	34.327	139.00 140.00	106.57 107.36	2005.61 2018.65	1411.57	43.334
	,				2.0400	20.420	2010403	1420.18	43.428
71.00 72.00	48.74 49.66	1118.77 1133.32	846.88 856.06	34.538 34.745	141.00	108.15	2031.70	1428.83	43.521
73.00	50.58	1147.70	865.11		142.00	108.95	2044.78	1437.49	43.614
74.00	51.50	1161.92	874.03	34.945 35.140	143.00	109.74	2057.87	1446.18	43.705
75.00	52.43	1175.99	882.82	35.329	144.00	110.53	2070.98	1454.89	43.798
76.00	53.37	1189.90	891.49	35.513	145.00 146.00	111.32	2084.11	1463.62	43.890
77.00	54.33	1203.68	900.03	35.692	147.00	112.11 112.90	2097.26 2110.43	1472.38 1481.15	43.981
78.00	55.30	1217.32	908.47	35.865	148.00	113.69	2123.61	1489.95	44.071 44.161
79.00	56.28	1230.85	916.82	36.035	149.00	114.48	2136.82	1498.77	44.251
80.00	57.28	1244.28	925.09	36.200	150.00	115.27	2150.04	1507.61	44.340
81.00	58.19	1257.73	933.45	36.367	151.00	116.06	2162 25	1516 45	
82.00	59.10	1271.11	941.77	36.531	152.00	116.84	2163.25 2176.47	1516.45 1525.31	44.428
83.00	60.01	1284.42	950.04	36.693	153.00	117.62	2189.72	1525.31 1534.19	44.516
84.00	60.91	1297.67	958.28	36.852	154.00	118.41	2202.98	1543.09	44•603 44•690
85.00	61.80	1310.86	966.48	37.008	155.00	119.19	2216.26	1552.01	44.776
86.00	62.69	1324.00	974.66	37.162	156.00	119.97	2229.56	1560.95	44.862
87.00	63.58	1337.10	982.82	37.313	157.00	120.75	2242.87	1569.91	44.947
88.00	64.46	1350.16	990.96	37.463	158.00	121.53	2256.20	1578.89	45.032
89.00 90.00	65.34	1363.19	999.09	37.610	159.00	122.31	2269.55	1587.89	45.116
90.00	66.21	1376.20	1007-20	37.755	160.00	123.09	2282.91	1596.91	45.200

Tempes.	******	ENTIME OF	THEONAL	ENTRORY	TEMBER	£0561516	ENTHAL BY	THITEDNAL	ENTROPY
TEMPER- Ature	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)	TEMPER- Ature	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)
(K)	(CC/GM)	(S) GM)	(J/GM)	(3/3/4 K)	(K)	(CC/GM)	(37011)	(J/GM)	(0) () ()
10,	(CC-GH)		(3-3-1)		17,			(0.0.)	
161.00	123.87	2296.29	1605.96	45.284	231.00	177.46	3263.30	2274.32	50.260
162.00	124.65	2309.69	1615.02	45.367	232.00	178.22	3277.44	2284.24	50.321
163.00	125.42	2323.11	1624.10	45.449	233.00	178.97	3291.59	2294.18	50.382
164.00	126.20	2336.54	1633.20	45.532	234.00	179.73	3305.76	2304.12	50.443
165.00	126.98	2349.99	1642.32	45.613	235.00	180-49	3319.93	2314.08	50.503
166.00	127.75	2363.45	1651.46	45.695	236.00	181.24	3334.11	2324.05	50.563
167.00 168.00	128.53 129.31	2376.94 2390.44	1660.62 1669.80	45.776 45.856	237.00 238.00	182.00 182.75	3348.31 3362.51	2334.03 2344.03	50.623 50.683
169.00	130.08	2403.95	1679.00	45.936	239.00	183.51	3376.72	2354.03	50.742
170.00	130.86	2417.48	1688.22	46.016	240.00	184.26	3390.95	2364.05	50.802
					- 10000				
171.00	131.63	2431.04	1697.47	46.095	241.00	185.02	3405.18	2374.07	50.861
172.00	132.40	2444.61	1706.73	46.174	242.00	185.77	3419.42	2384.10	50.920
173.00	133.17	2458.21	1716.02	46.252	243.00	186.53	3433.67	2394.15	50.978
174.00	133.95	2471.81	1725.32	46.331	244.00	187.28	3447.93	2404.20	51.037
175.00	134.72	2485.43	1734.64	46.408	245.00	188.04	3462.20	2414.26	51.095
176.00	135.49	2499.07	1743.98	46.486	246.00	188.79	3476.47	2424.34	51.153
177.00 178.00	136.26 137.03	2512.72 2526.39	1753.33 1762.70	46.563 46.640	247.00 248.00	189.55 190.30	3490 • 75 3505 • 04	2434.41 2444.50	51.210 51.268
179.00	137.80	2540.07	1772.09	46.716	249.00	191.05	3519.34	2454.59	51.325
180.00	138.57	2553.76	1781.49	46.792	250.00	191.81	3533.63	2464.59	51.382
100400	13003	2,330.0	1101017		270000	.,	3333603	2,0,00	311302
181.00	139.34	2567.47	1790.91	46.867	251.00	192.56	3547.94	2474.80	51.439
182.00	140.11	2581.19	1800.34	46.943	252.00	193.31	3562.25	2484.91	51.496
183.00	140.88	2594.92	1809.79	47.017	253.00	194.07	3576.56	2495.03	51.553
184.00	141.65	2608.66	1819.25	47.092	254.00	194.82	3590.88	2505.15	51.609
185.00	142.41	2622.42	1828.72	47.166	255.00	195.57	3605.20	2515.28	51.665
186.00	143.18	2636.18	1838.21	47.240	256.00	196.32	3619.53	2525.40	51.721
187.00	143.95	2649.96	1847.71	47.314	257.00	197.08	3633.85	2535.54	51.777
188.00	144.72	2663.74	1857.22	47.387	258.00	197.83	3648 • 18	2545.67	51.832
189.00	145.48	2677.54	1866.74	47.460	259.00	198.58 199.33	3662.51	2555•8° 2565•95	51.888 51.943
190.00	146.25	2691.34	1876.28	47.532	260.00	199633	3676.84	2703.93	210343
191.00	147.01	2705.16	1885.82	47.604	261.00	200.08	3691.18	2576.09	51.998
192.00	147.78	2718.98	1895.38	47.676	262.00	200.84	3705.51	2586.23	52.053
193.00	148.55	2732.81	1904.94	47.748	263.00	201.59	3719.84	2596.37	52.107
194.00	149.31	2746.65	1914.52	47.819	264.00	202.34	3734.17	2606.52	52.162
195.00	150.08	2760.49	1924.10	47.890	265.00	203.09	3748.51	2616.66	52.216
196.00	150.84	2774.35	1933.69	47.961	266.00	203.84	3762.84	2626.80	52.270
197.00	151.61	2788.21	1943.29	48.031	267.0d	204.59	3777.17	2636.95	52.324
198.00	152.37	2802.07	1952.90	48.101	268.00	205.35	3791.50	2647.09	52.378
199.00	153.14	2815.95	1962.52	48,171	269.00	206.10	3805.83	2657.23	52.431
200.00	153.90	2829.83	1972.14	48.241	270.00	206.85	3820.16	2567.38	52.485
201.00	154.66	2843.69	1981.75	48.310	271.00	207.60	3834.49	2677.52	52.538
202.00	155.43	2857.56	1991.37	48.379	272.00	208.35	3848.82	2687.66	52.591
203.00	156.19	2871.44	2001.00	48.447	273.00	209.10	3863.14	2697.81	52.644
204.00	156.95	2885.32	2010.63	48.516	274.00	209.85	3877.47	2707.95	52.696
205.00	157.71	2899.21	2020.27	48.584	275.00	210.60	3891.80	2718.09	52.749
206.00	158.48	2913.11	2029.92	48,652	276.00	211.35	3906.13	2728.24	52.801
207.00	159.24	2927.01	2039.58	48.719	277.00	212.11	3920.46	2738.39	52.853
208.00	160.00	2940.92	2049.24	48.786	278.00	212.86	3934.79	2748.53	52.905
209.00	160.76	2954.84	2058.92	48.853	279.00	213.61	3949.12	2758.69	52.957
210.00	161.52	2968.77	2068.60	48.920	280.00	214.36	3963.46	2768.84	53.008
211.00	162.28	2982.70	2078.29	48.986	281.00	215.11	3977.80	2779.00	53.060
212.00	163.04	2996.64	2087.99	49.052	282.00	215.86	3992.15	2789.16	53.111
213.00	163.80	3010.59	2097.70	49.118	283.00	216.61	4006.50	2799.33	53.162
214.00	164.56	3024.54	2107.42	49.184	284.00	217.36	4020.85	2809.51	53.213
215.00	165.32	3038.51	2117.15	49.249	285.00	218.11	4035.21	2819.69	53.264
216.00	166.08	3052.48	2126.89	49.314	286.00	218.86	4049.58	2829.88	53.314
217.00	166.84	3066.47	2136.64	49.379	287.00	219.61	4063.96	2840.08	53.364
218.00	167.60	3080.46	2146.40	49.444	288.00	220.36	4078 • 35	2850.29	53.414
219.00	168.36	3094.46	2156.17	49.508	289.00	221.11	4092.74	2860.51	53.464
220.00	169.12	3108.48	2165.95	49.572	290.00	221.86	4107.15	2870.74	53.514
221.00	169.88	3122.50	2175.74	49.636	291.00	222.61	4121.57	2880.98	53.564
222.00	170.64	3136.53	2185.55	49.699	292.00	223.36	4136.00	2891.23	53.613
223.00	171.40	3150.57	2195.36	49.763	293.00	224.11	4150.45	2901.50	53.662
224.00	172.16	3164.63	2205.19	49.826	294.00	224.86	4164.91	2911.79	53.711
225.00	172.91	3178.69	2215.03	49.888	295.00	225.61	4179.38	2922.09	53.760
226.00	173.67	3192.76	2224.88	49.951	296.00	226.36	4193.87	2932.40	53.808
227.00	174.43	3206.85	2234.74	50.013	297.00	227.10	4208.38	2942.73	53.857
228.00	175.19	3220.95	2244.62	50.075	298.00	227.85	4222.89	2953.08	53.905
229.00	175.95	3235.05	2254.51	50.137	299.00	228.60	4237.43	2963 • 44	53.953
230.00	176.70	3249.17	2264.41	50.199	300.00	229.35	4251.98	2973.81	54.001

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					·				
					91.00	61.68	1383.20	1008.21	37.474
					92.00	62.48	1396.32	1016.44	37.617
					93.00	63.29	1409.42	1024.68	37.759
					94.00	64.08	1422.50	1032.91	37.898
					95.00	64.88	1435.58	1041.15	38.036
					96.00	65.67	1448.64	1049.39	38.173
					97.00	66.46	1461.69	1057.64	38.308
					98.00	67.25	1474.74	1065.90	38.441
					99.00	68.03	1487.77	1074.16	38.573
30.00	14.27	423.25	336.51	19.738	100.00	68.82	1500.80	1082.43	38.704
					10000	00002	1700100	1002143	300104
31.00	14.44	434.60	346.81	20.121	101.00	69.60	1513.81	1090.68	38.833
32.00	14.66	446.78	357.67	20.515	102.00	70.38			
33.00	14.92	459.73	369.06	20.918	103.00	71.15	1526.79	1098.93	38.961
34.00	15.23	473.41	380.93	21.330			1539.77	1107.19	39.087
35.00	15.57				104.00	71.93	1552.74	1115.44	39.212
		487.78	393.23	21.749	105.00	72.70	1565.69	1123.69	39.336
36.00	15.95	502.80	405.94	22.173	106.00	73.47	1578.63	1131.94	39.458
37.00	16.37	518.41	418.99	22.602	107.00	74.24	1591.55	1140.19	39.580
38.00	16.84	534.56	432.34	23.035	108.00	75.00	1604.47	1148.44	39.699
39.00	17.34	551.21	445.96	23.470	109.00	75.77	1617.36	1156.68	39.818
40.00	17.87	568.31	459.78	23.907	110.00	76.53	1630.25	1164.92	39.936
_		_							
41.00	18.61	584.31	471.00	24.337	111.00	77.29	1643.12	1173.16	40.052
42.00	19.06	603.67	487.94	24.778	112.00	78.05	1655.98	1181.40	40.167
43.00	19.41	624.35	506.84	25.220	113.00	78.81	1668.83	1189.63	40.281
44.00	19.78	645.09	525.40	25.657	114.00	79.56	1681.66	1197.87	40.394
45.00	20.26	665.20	542.39	26.087	115.00	80.32	1694.49	1206.10	40.505
46.00	20.90	684.38	557.34	26.507	116.00	81.07	1707.30	1214.33	40.616
47.00	21.71	702.64	570.28	26,916	117.00	81.83	1720.10	1222.55	
48.00	22.69	720.13	581.55	27.315	118.00	82.58	1732.89		40.726
49.00	23.83	737.10	591.67	27.703				1230.78	40.834
50.00	25.11	753.82	601.19	28.081	119.00	83.33	1745.68	1239.02	40.942
20400	27411	133402	001819	50.001	120.00	84.08	1758.46	1247.25	41.048
51.00	26.47	770.54	610 62	28 450	121 00	04 80	1771 24	1255 40	
			610.63	28,450	121.00	84.82	1771.24	1255.49	41.154
52.00	27.86	787.48	620.43	28.811	122.00	85.57	1784.02	1263.74	41.259
53.00	29.22	804.79	630.91	29.163	123.00	86.32	1796.80	1271.99	41.363
54.00	30.49	822.53	642.27	29.508	124.00	87.06	1809.57	1280.25	41.466
55.00	31.60	840.74	654.56	29.844	125.00	87.81	1822.36	1288.53	41.568
56.00	32.53	859.35	667.74	30.173	126.00	88.55	1835.22	1296.88	41.671
57.00	33.27	878.27	681.64	30.494	127.00	89.28	1848.10	1305.26	41.772
58.00	33.82	897.36	696.06	30.806	128.00	90.02	1860.99	1313.65	41.874
59.00	34.24	916.47	710.71	31.110	129.00	90.76	1873.89	1322.06	41.974
60.00	34.56	935.43	725.30	31.405	130.00	91.49	1886.81	1330.49	42.074
61.00	34.86	954.07	739.54	31.690	131.00	92.23	1899.74	1338.94	42.173
62.00	35.19	972.23	753.16	31.966	132.00	92.96	1912.69	1347.41	42.272
63.00	35.60	989.81	765.93	32.232	133.00	93.70	1925.65	1355.91	42.370
64.00	36.15	1006.71	777.70	32.489	134.00	94.43	1938.63	1364.42	42.468
65.00	36.88	1022.88	788.37	32.736	135.00	95.16	1951.63	1372.96	42.565
66.00	37.81	1038.32	797.92	32.974	136.00	95.89	1964.64	1381.52	42.661
67.00	38.98	1053.06	806-40	33.204	137.00	96.62	1977.68	1390.11	42.757
68.00	40.39	1067.17	813.95	33.426	138.00	97.35			
69.00	42.04	1080.78	820.75	33.641			1990.73	1398.72	42.852
70.00	43.91	1094.00	827.05	33.849	139.00	98.08	2003.80	1407.35	42.947
.0400	~J#74	AU740U	02/003	JJ 6 0 4 7	140.00	98.81	2016.89	1416.00	43.042
71.00	44.96	1108.53	835.91	34.058	141 00	99.54	2020 00	1424 46	42 125
72.00	46.00	1122.96			141.00		2030-20	1424.68	43.135
73.00	47.01		844.73	34.262	142.00	100-27	2043.13	1433.38	43.229
		1137.30	853.54	34.462	143.00	101.00	2056 • 28	1442.10	43.322
74.00	47.98	1151.58	862.39	34.658	144.00	101.73	2069.44	1450.85	43.414
75.00	48.90	1165.81	871.28	34.849	145.00	102.46	2082.63	1459.62	43.506
76.00	49.76	1180.01	880.24	35.037	146.00	103.19	2095.83	1468•41	43.597
77.00	50.56	1194.17	889.25	35.222	147.00	103.91	2109.05	1477.23	43.688
78.00	51.30	1208.30	898.31	35.403	148.00	104.64	2122.29	1486.06	43.779
79.00	51.98	1222.39	907.39	35.581	149.00	105.37	2135.54	1494.92	43.869
80.00	52.63	1236.42	916.47	35.756	150.00	106.09	2148.81	1503.80	43.958
									-
81.00	53.45	1250.09	925.04	35.926	151.00	106.82	2162.07	1512.67	44.047
82.00	54.28	1263.69	933.56	36.092	152.00	107.54	2175.35	1521.56	44.135
83.00	55.10	1277.20	942.01	36.256	153.00	108.26	2188.64	1530.47	44.222
84.00	55.92	1290.64	950.42	36.417	154.00	108.98	2201.95	1539.40	44.309
85.00	56.74	1304.01	958.77	36.575	155.00	109.70	2215.27	1548.35	44.396
86.00	57.57	1317.32	967.08	36.731	156.00	110.41	2228.61	1557.32	44.482
87.00	58.39	1330.58	975.35	36.884	157.00	111.13			
88.00	59.22	1343.78	983.58	37.035	158.00		2241.97	1566.31	44.567
89.00	60.04	1356.94	991.79	37.183		111.85	2255.35	1575.32	44.653
90.00					159.00	112.57	2268.74	1584.36	44.737
7.V.	60.87	1370.06	999.97	37.329	160.00	113.28	2282.15	1593.41	44.822

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	AUFAME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
141	114 00	2205 54	1402 40	44.905	231.00	163.24	3264.64	2272.22	49.893
161.00	114.00	2295.58	1602.48	44.989	232.00	163.93	3278.79	2282.14	49.954
162.00	114.72	2309.02	1611.57 1620.69	45.072	233.00	164.63	3292.96	2292.08	50.015
163.00	115.43	2322.48	1629.82	45.072	234.00	165.32	3307.13	2302.04	50.076
164.00	116.15	2335.96		_			3321.32	2312.01	50.136
165.00	116.86	2349.45	1638.97	45,236	235.00	166.02	3335.52	2321.99	50.196
166.00	117.57	2362.97	1648.15	45.318	236.00	166.71	3349.73	2331.98	50.256
167.00	118.29	2376.49	1657.34	45.399	237.00	167.40	3363.95	2341.98	50.316
168.00	119.00	2390.04	1666.55	45.479	238.00	168.10 168.79	3378.19	2352.00	50.376
169.00	119.71	2403.60	1675.78	45.560	239•00 240•00		3392.43	2362.03	50.435
170.00	120.43	2417.18	1685.03	45.640	240400	169.48	3372643	2302.03	300433
171.00	121.14	2430.79	1694.32	45.719	241.00	170.18	3406.68	2372.07	50.494
172.00	121.85	2444.41	1703.62	45.798	242.00	170.87	3420.95	2382.12	_
173.00	122.56	2458.05	1712.95	45.877	243.00	171.56	3435.22	2392.18	50.612
174.00	123.27	2471.71	1722.29	45.956	244.00	172.26	3449.50	2402.25	50.670
175.00	123.98	2485.39	1731.65	46.034	245.00	172.95	3463.79	2412.33	50.729
176.00	124.68	2499.08	1741.03	46.111	246.00	173.64	3478.09	2422.42	50.787
177.00	125.39	2512.78	1750.43	46.188	247.00	174.33	3492.40	2432.52	50.845
	126.10	2526.50	1759.84	46.265	248.00	175.02	3506.71	2442.63	50.902
178.00 179.00	126.81	2540.23	1769.27	46.342	249.00	175.72	3521.03	2452.74	50.960
180.00	127.52	2553.98	1778.71	46.418	250.00	176.41	3535.36	2462.86	51.017
100400	121032	2277876	1110412	408410	230000	1.00.1	3333430	2.02000	
181.00	128.22	2567.74	1788.17	46.494	251.00	177.10	3549.69	2472.99	51.074
182.00	128.93	2581.51	1797.64	46.569	252.00	177.79	3564.03	2483.12	51.131
183.00	129.64	2595.29	1807.13	46.644	253.00	178.48	3578.37	2493.26	51.187
184.00	130.34	2609.08	1816.63	46.719	254.00	179.17	3592.71	2503.40	
185.00	131.05	2622.89	1826.14	46.793	255.00	179.86	3607.06	2513.55	51.300
186.00	131.75	2636.70	1835.67	46.867	256.00	180.55	3621.41	2523.70	51.356
187.00	132.46	2650.53	1845.21	46.941	257.00	181.24	3635.76	2533.85	51.412
188.00	133.16	2664.36	1854.76	47.014	258.00	181.93	3650.12	2544.01	51.467
189.00	133.87	2678.20	1864.32	47.087	259.00	182.62	3664.47	2554.16	
190.00	134.57	2692.05	1873.89	47.160	260.00	183.31	3678.83	2564.32	
170400	1,442,	20,210,	.0.500		20000				
191.00	135.28	2705.91	1883.47	47.233	261.00	184.00	3693.18	2574.48	51.633
192.00	135.98	2719.78	1893.05	47.305	262.00	184.69	3707.53	2584.64	51.688
193.00	136.68	2733.65	1902.65	47.376	263.00	185.38	3721.89	2594.80	51.743
194.00	137.39	2747.53	1912.25	47.448	264.00	186.07	3736.24	2604.95	51.797
195.00	138.09	2761.41	1921.87	47.519	265.00	186.76	3750.59	2615.11	51.851
196.00	138.79	2775.30	1931.49	47.590	266.00	187.45	3764.94	2625.26	51.906
197.00	139.49	2789.20	1941.11	47.660	267.00	188.14	3779.29	2635.42	
198.00	147.20	2803.10	1950.75	47.730	268.00	188.83	3793.63	2645.57	
199.00	140.90	2817.01	1960.39	47.800	269.00	189.52	3807.97	2655.72	
200.00	141.60	2830.92	1970.03	47.870	270.00	190.21	3822.31	2665.87	
			• • • • • • • • • • • • • • • • • • • •						
201.00	142.30	2844.80	1979.65	47.939	271.00	190.90	3836.65	2676.02	52.174
202.00	143.00	2858.69	1989.28	48.008	272.00	191.59	3850.99	2686.17	52.227
203.00	143.70	2872.59	1998.92	48.077	273.00	192.28	3865.32	2696.31	52.279
204.00	144.40	2886.49	2008.56	48.146	274.00	192.97	3879.66	2706 • 46	52.332
205.00	145.10	2900.39	2018.21	48,214	275.00	193.66	3893.99	2716.60	52.385
206.00	145.80	2914.30	2027.86	48.282	276.00	194.35	3908.32	2726.74	52.437
207.00	146.50	2928.22	2037.52	48.349	277.00	195.04	3922.65	2736.89	52.489
208.00	147.20	2942.14	2047.19	48.417	278.00	195.73	3936.99	2747.04	
209.00	147.90	2956.06	2056.86	48.484	279.00	196.42	3951.32	2757.18	52.593
210.00	148.60	2970.00	2066.54	48.550	280.00	197.10	3965.66	2767.34	52.645
211.00	149.30	2983.93	2076.23	48.617	281.00	197.79		2777.49	
212.00	150.00	2997.88	2085.93	48.683	282.00	198.48		2787.65	
213.00	150.70	3011.83	2095.64	48.749	283.00	199.17		2797.81	
214.00	151.40	3025.80	2105.35	48.815	284.00	199.86	4023.05	2807.98	
215.00	152.09	3039.77	2115.08	48.880	285.00	200.55		2818.16	
216.00	152.79	3053.74	2124.82	48.946	286.00	201.24	4051.78	2828.35	
217.00	153.49	3067.73	2134.56	49.011	287.00	201.92		2838.55	
218.00	154.19	3081.73	2144.32	49.075	288.00	202.61		2848.76	
219.00	154.88	3095.73	2154.08	49.140	289.00	203.30		2858.98	
220.00	155.58	3109.75	2163.86	49.204	290.00	203.99	4109.37	2869.21	53.151
								2070 **	E2 200
221.00	156.28	3123.77	2173.65	49.268	291.00	204.68	4123.80	2879 • 46	
222.00	156.98	3137.81	2183.45	49.331	292.00	205.36		2889.72	
223.00	157.67	3151.86	21 1-26	49.395	293.00	206.05		2900.00	
224.00	158.37	3165.91	2203.09	49.458	294.00	206.74		2910.30	
225.00	159.06	3179.98	2212.92	49.521	295.00	207.43		2920.62	
226.00	159.76	3194.06	2222.77	49.583	296.00	208.11		2930.95	
227.00	160.46	3208.16	2232.64	49.646	297.00	208.80		2741.30	
228.00	161.15	3222.26	2242.51	49.708	298.00	209.49		2951.67	
229.00	161.85	3236.38	2252.40	49.770	299.00	210.17		2962.06	
230.00	162.54	3250.50	2262.30	49.831	300.00	210.86	4254.41	2972•47	53.638

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	57.14	1377.65	1001.33	37.082
					92.00	57.89	1390.67	1009.64	37.227
					93.00	58.63	1404.07	1017.94	37.370
					94.00	59.37		1026.24	37.511
					95.00	60.11	1430.41	1034.53	37.650
					96.00	60.85	1443.55	1042.83	37.788
					97.00	61.58	1456.68	1051.13	37.924
					98.00	62.31	1469.80	1059.42	38.059
					99.00	63.04	1482.92	1067.73	38.192
30.00	14.12	425.94	332.67	19.671	100.00	63.77	1496.02	1076.04	38.324
					200000	030.1	. 47000	10.0104	300324
31.00	14.28	437.46	343.91	20.026	101.00	64.49	1509.09	1084.33	38.454
32.00	14.48	449.47	355.40	20.393	102.00	65.22	1522.15	1092.62	38.583
33.00	14.71	461.97	367.12	20.769	103.00	65.94	1535.20	1100.91	38.710
34.00	14.98	474.95	379.05	21.154	104.00	66.66	1548.23	1109.20	38.836
35.00	15.28	488.39	391.20	21.547	105.00	67.38	1561.25		
36.00	15.62	502.29	403.53	21.947	106.00	68.09		1117.49	38.961
37.00	16.00	516.64	416.05	22.352	107.00		1574.26	1125.79	39.084
38.00	16,41	531.41	428.73			68.81	1587.26	1134.08	39.206
39.00	16.85	546.61		22.762	108.00	69.52	1600.25	1142.38	39.327
	17.33		441.55	23.175	109.00	70.23	1613.23	1150.67	39.447
40.00	11037	562.22	454.50	23.591	110.00	70.94	1626.20	1158.97	39.565
41.00	17.83	578.21	447 27	24 600	111 00		1000 1-	1145 61	
			467.57	24.008	111.00	71.65	1639.15	1167.26	39.682
42.00	18.37	594.57	480.72	24.425	112.00	72.35	1652.10	1175.56	39.798
43.00	18.94	611.27	493.96	24.841	113.00	73.06	1665.03	1183.86	39.912
44.00	19.54	628.31	507.26	25,255	114.00	73.76	1677.96	1192.16	40.026
45.00	20.17	645.65	520.60	25,666	115.00	74.46	1690.88	1200.46	40.138
46.00	20.82	663.25	533.96	26.075	116.00	75.16	1703.79	1208.76	40.249
47.00	21.51	679.05	546.94	26.476	117.00	75.85	1716.69	1217.07	40.359
48.00	22.21	699.23	560.66	26.874	118.00	76.55	1729.58	1225.38	40.468
49.00	22.92	721.58	574.70	27.265	119.00	77.25	1742.47	1233.70	40.576
50.00	23.65	744.57	588.78	27.648	120.00	77.94	1755.36	1242.02	40.684
51.00	24.41	767.19	602.70	28.022	121.00	78.63	1768.24	1250.35	40.790
52.00	25.18	788.84	616.34	28.387	122.00	79.32	1781.13	1258.68	40.895
53.00	25.99	809.24	629.63	28.741	123.00	80.01	1794.01	1267.02	40.999
54.00	26.81	828.32	642.53	29.085	124.00	80.70	1806.90	1275.38	41.103
55.00	27.66	846.17	655.06	29.418	125.00	81.39	1819.78	1283.74	41.205
56.00	28.52	862.96	667.22	29.742	126.00	82.07	1832.74	1292.17	41.308
57.00	29.40	878.93	679.05	30.055	127.00	82.76	1845.71	1300.62	41.411
58.00	30.29	294.33	690.60	30.359	128.00	83.44	1858.68	1309.08	41.512
59.00	31.19	909.41	701.89	30.654	129.00	84.12	1871.67	1317.55	41.613
60.00	32.10	924.36	712.97	30.941	130.00	84.80	1884.67	1326.05	41.713
*****			, , , , , ,	304741	13000	04400	1004001	1320.03	410/13
61.00	33.00	939.38	723.87	31.219	131.00	85.49	1897.68	1334.56	41.013
62.00	33.89	954.58	734.63	31.489	132.00	86.17	1910.70	1349 00	41.813 41.912
63.00	34.78	970.05	745.25	31.752	133.00	86.85		1343.09	-
64.00	35.66	985.83	755.77	32.008	134.00		1923.74	1351.64	42.011
65.00	36.52	1001.91				87.52	1936.79	1360.21	42.109
66.00	37.38		766.18	32.257	135.00	88.20	1949.86	1368.80	42.206
67.00	38.22	1018.25 1034.78	776.50 786.71	32.500	136.00	88.88	1962.94	1377.41	42.303
68.00	39.04			32.736	137.00	89.56	1976.04	1386.04	42.399
		1051.41	796.83	32.966	138.00	90.24	1989.15	1394.69	42.495
69.00	39.86	1068.03	806.83	33.191	139.00	90.91	2002.28	1403.36	42.590
70.00	40.66	1084.55	816.72	33.410	140.00	91.59	2015.42	1412.05	42.685
71 00	41 47	1100 00			449				
71.00	41.47	1100.85	826.48	33.624	141.00	92.27	2028.59	1420.76	42.780
72.00	42.26	1116.84	836.10	33.833	142.00	92.94	2041.76	1429.50	42.873
73.00	43.06	1132.44	845.59	34.037	143.00	93.62	2054.96	1438.25	42.967
74.00	43.86	1147.60	854.93	34.237	144.00	94.29	2068.17	1447.02	43.059
75.00	44.66	1162.28	864.13	34.431	145.00	94.97	2081.39	1455.82	43.152
76.00	45.46	1176.48	873.19	34.622	146.00	95.64	2094.64	1464.63	43.243
77.00	46.27	1190.22	882.11	34.808	147.00	96.32	2107.90	1473.47	43.335
78.00	47.09	1203.53	890.91	34,990	148.00	96.99	2121.18	1482.33	43.426
79.00	47.91	1216.50	899.60	35.168	149.00	97.66	2134.47	1491.20	43.516
80.00	48.74	1229.20	908.20	35.343	150.00	98.34	2147.78	1500.10	43.606
	-				= +				
81.00	49.52	1242.97	916.89	35.515	151.00	99.01	2161.08	1509.00	43.694
82.00	50.31	1256.66	925.53	35.684	152.00	99.67	2174.40	1517.92	43.783
83.00	51.08	1270.28	934.11	35.850	153.00	100.34	2187.74	1526.87	43.871
84.00	51.86	1283.85	942.63	36.013	154.00	101.01	2201.10	1535.83	43.958
85.00	52.62	1297.36	951.11	36.173	155.00	101.67	2214.47	1544.81	
86.00	53.39	1310.83	959.55	36.330					44.045
87.00	54.14	1324.27			156.00 157.00	102.34	2227.85	1553.81	44.131
88.00	54.90	1337.67	967.96	36.485	157.00	103.00	2241.26	1562.83	44.217
89.00		1351.05	976.33	36.638	158.00	103.67	2254.68	1571.87	44.303
	55.65		984.68	36.788	159.00	104.33	2268.11	1580.93	44.388
90.00	56.39	1364.40	993.01	36.936	160.00	105.00	2281.56	1590.02	44.472

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
			1000 13	554	221 00	161 21	2266 05	2270.16	49.554
161.00	105.66	2295.03	1599.12	44.556	231.00	151.21 151.85	32 66. 05 32 8 0.23	2280.11	49.616
162.00	106.32	2308.52	1608.24 1617.38	44.640 44.723	232.00 233.00	152.49	3294.41	2290.07	49.677
163.00	106.98 107.65	2322.02 2335.54	1626.54	44.806	234.00	153.13	3308.61	2300.04	49.738
164.00 165.00	108.31	2349.07	1635.72	44.888	235.00	153.77	3322.82	2310.02	49.798
166.00	108.97	2362.62	1644.92	44.970	236.00	154.42	3337.04	2320.02	49.859
167.00	109.63	2376.19	1654.14	45.051	237.00	155.06	3351.28	2330.03	49.919
168.00	110.29	2389.77	1663.37	45,132	238.00	155.70	3365.52	2340.05	49.979
169.00	110.95	2403.37	1672.63	45,213	239.00	156.34	3379.77	2350.08	50.038
170.00	111.61	2416.98	1681.91	45.293	240.00	156.98	3394.03	2360.12	50.098
	•								
171.00	112.27	2430.62	1691.21	45.373	241.00	157.62	3408.31	2370.17	
172.00	112.92	2444.28	1700.53	45.452	242.00	158.26	3422.59	2380.23	
173.00	113.58	2457.95	1709.87	45.531	243.00	158.90	3436.88	2390.31	50.275
174.00	114.24	2471.63	1719.23	45.610	244.00	159.54	3451.18	2400.39	
175.00	114.89	2485.34	1728.61	45.688	245.00	160.18	3465.49	2410.48	50.391
176.00	115.55	2499.05	1738.00	45.766	246.00	160.82	3479.80	2420.58	50.450
177.00	116.21	2512.78	1747.41	45.843	247.00	161.46	3494.12	2430.69	
178.00	116.86	2526.52	1756.84	45.920	248.00	162.10		2440.81	
179.00	117.52	2540.28	1766.28	45.997	249.00	162.74	3522.79	2450.93	
180.00	118.17	2554.05	1775.74	46.073	250.00	163.38	3537.13	2461.06	50.680
						• • • • •			
181.00	118.82	2567.83	1785.21	46,149	251.00	164.02		2471.19	
182.00	119.48	2581.62	1794.69	46.225	252.00	164.66		2481.34	
183.00	120.13	2595.43	1804.19	46.300	253.00	165.30		2491 • 48	
184.00	120.78	2609.24	1813.71	46.375	254.00	165.94		2501.63	-
185.00	121.44	2623.07	1823.23	46.449	255.00	166.57		2511.79	
186.00	122.09	2636.91	1832.77	46.524	256.00	167.21	3623.26	2521.94	
187.00	122.74	2650.75	1842.32	46.597	257.00	167.85		2532.10	
188.00	123.39	2664.61	1851.88	46.671	258.00	168.49		2542.27	
189.00	124.05	2678.47	1861.45	46.744	259.00	169.13		2552.43	
190.00	124.70	2692.34	1871.03	46.817	260.00	169.76	3680.73	2562.60	51.242
						170 / 0	2/25 12	2572 7/	61 207
191.00	125.35	2706.22	1880.62	46.890	261.00	170.40		2572.76	 -
192.00	126.00	2720.10	1890.22	46.962	262.00	171.04		2582.93	
193.00	126.65	2734.00	1899.83	47.034	263.00	171.68		2593.10	
194.00	127.30	2747.90	1909.44	47.105	264.00	172.31		2603 • 26	
195.00	127.95	2761.80	1919.07	47.177	265.00	172.95		2613.43	
196.00	128.60	2775.72	1928.70	47.247	266.00	173.59		2623.59	
197.00	129.25	2789.63	1938.34	47.318	267.00	174.23		2633.76	
198.00	129.90	2803.56	1947.99	47.388	268.00	174.86		2643.92	
199.00	130.55	2817.48	1957.64	47.458	269.00	175.50		2654.08	
200.00	131.20	2831.42	1967.30	47.528	270.00	176.14	3824.36	2664.24	51.785
		2015 00	1074 04	47 500	271 00	174 70	3838.72	2674.40	51.838
201.00	131.85	2845.33	1976.94	47.598	271.00	176.78 177.41		2684.56	
202.00	132.50	2859.25	1986.59	47.667	272.00			2694.72	
203.00	133.14	2873.17	1996.24	47.736	273.00	178.05		2704.88	
204.00	133.79	2887.10	2005.90	47.804	274.00	178.69			
205.00	134.44	2901.03	2015.57	47.873	275.00	179.32		2715.04	
206.00	135.09	2914.97	2025.25	47.941	276.00	179.96		2725.19	
207.00	135.73	2928.92	2034.93	48.008	277.00	180.60		2735.35	
208.00	136.38	2942.87	2044-62	48.076	278.00	181.23		2745.51	
209.00	137.03	2956.82	2054.31	48.143	279.00 280.00	181.87 182.51		2755•68 2765•84	
210.00	137.67	2970.79	2064.02	48.210	280.00	102 4 71	3701800	2:02507	220.197
211.00	138.32	2984.76	2073.73	48,277	281.00	183.14	3982.24	2776.01	52.361
	138.97	2998.73	2083.45	48.343	282.00	183.78		2786.18	
212.00 213.00	139.61	3012.72	2093.19	48.409	283.00	184.42		2796.36	
	140.26	3026.71	2102.93	48.475	284.00	185.05			
214.00	140.20	3040.71	2112.67	48.540	285.00	185.69		2816.74	
215.00		3054.72	2122.43	48.606	286.00	186.32		2826.94	
216.00	141.55 142.19	3068.74	2132.20	48.671	287.00	186.96		2837.15	
217.00	142.19	3082.76	2141.98	48.736	288.00	187.60		2847.37	
218.00		3096.80	2151.77	48.800	289.00	188.23		2357.60	
219.00 220.00	143.48 144.13	3110.85	2161.57	48.864	290.00	188.87			
220.00	144013	2110003	510101		2,0400				
221.00	144.77	3124.90	2171.38	48,928	291.00	189.50	4126.20		
222.00	145.42	3138.97	2181.21	48,992	292.00	190.14			
223.00	146.06	3153.04	2191.04	49.056	293.00	190.77		2898 • 66	
224.00	146.70	3167.13	2200.89	49.119	294.00	191.41		2908.97	
225.00	147.35	3181.23	2210.75	49.182	295.00	192.04		2919.29	
226.00	147.99	3195.34	2220.62	49.244	296.00	192.68		2929.62	
227.00	148.63	3209.46	2230.50	49.307	297.00	193.31			
228.00	149.28	3223.59	2240.40	49.369	298.00	193.94			
229.00	149.92	3237.73	2250.31	49.431	299.00	194.58		2960 • 74	
230.00	150.56	251.88	2260.23	49.493	300.00	195.21			
-20400				• • •	0				

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	1/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	53.28	1372.39	294.49	36.716
					92.00	53.97	1385.71	1002.88	36.862
					93.00	54.67	1399.00	1011.26	37.006
					94.00	55.36	1412.28	1019.63	37.148
					95.00	56.05	1425.53	1028.00	37.289
					96-00	56.74	1438.77	1036.36	37.428
					97.00	57.42	1451.99	1044.73	37.565
					98.00	58.10	1465.20	1053.09	37.701
20.00	12.00	494 04			99.00	58.78	1478.40	1061.46	37.836
30.00	13.99	430.24	330.74	19.595	100.00	59.46	1491.59	1069.83	37.969
31.00	14.15	440.96	220 00	10.000	101 00				
32-00	14.33		339.90	19.932	101.00	60.14	1504.75	1078.18	38.100
33.00	14.55	452.32	349.61	20.281	102.00	60.82	1517.89	1086.53	38.230
34.00	14.80	464.28	359.83	20.639	103.00	61.49	1531.02	1094.88	38.359
35.00	15.07	476.83	370.52	21.007	104.00	62.16	1544.13	1103.23	38.486
36.00	15.38	489.94	381.66	21.383	105.00	62.83	1557.24	1111.58	38.612
37.00		503.59	393.20	21.765	106.00	63.50	1570.33	1119.93	38.736
38.00	15.72	517.74	405.12	22.154	107.00	64.17	1583.41		38.859
39.00	16.09	532.38	417.37	22.547	108.00	64.84	1596.48	1136.64	38.981
	16.48	547.47	429.93	22.944	109.00	65.50	1609.54	1144.99	39.101
40.00	16.91	562.99	442.74	23.344	110.00	66.16	1622.58	1153.34	39.220
41.00	17.36	578.91	ASS 70	22 745	111 00		1405 40		
42.00	17.84	595.19	455.78	23.745	111.00	66.82	1635.62	1161.70	39.338
43.00	18.35	611.80	469.01 482.39	24.147	112.00	67.48	1648.64	1170.05	39.454
44.00	18.88			24.548	113.00	68.14	1661.66	1178.41	39.570
45.00	19.44	628.71 645.90	495.89	24.948 25.346	114.00	68.79	1674.66	1186.77	39.684
46.00	20.02	663.33	509.47 523.08		115.00	69.45	1687.66	1195.13	39.797
47.00	20.64	680.37	536.61	25.740	116.00	70.10	1700.65	1203.49	39.909
48.00	21.25	698.77	550.32	26.132	117.00	70.75	1713.63	1211.86	40.019
49.00	21.86	717.88		26.518	118.00	71.40	1726.60	1220.23	40.129
50.00	22.49	737.24	564.07 577.74	26.898 27.270	119.00	72.05	1739.57	1228.60	40.237
20000	25.47	737624	311614	210210	120.00	72.69	1752.54	1236.98	40.345
51.00	23.13	756.54	591.25	27.634	121.00	73.34	1765.50	1245.37	40.451
52.00	23.80	775.58	604.55	27.990	122.00	73.98	1778.46	1253.76	40-557
53.00	24.50	794.26	617.59	28.337	123.00	74.62	1791.42	1262.16	
54.00	25.23	812.52	630.37	28.675	124.00	75.26	1804.38	1270.58	40.662
55.00	25.99	830.38	642.89	29.005	125.00	75.90	1817.35	1279.00	40.765 40.868
56-00	26.77	847.87	655.14	29.325	126.00	76.54	1830.38	1287.48	40.972
57.00	27.58	865.03	667.15	29.627	127.00	77.18	1843.42	1295.98	
58.00	28.40	881.91	678.92	29.941	128.00	77.81	1856.47	1304.50	41.074 41.177
59.00	29.23	898.58	690.47	30.236	129.00	78.45	1869.53	1313.03	41.278
60.00	30.07	915.10	701.82	30.522	130.00	79.09	1882.60	1321.58	41.379
									424317
61.00	30.91	931.49	712.99	30.801	131.00	79.72	1895.68	1330.14	41.479
62.00	31.74	947.80	723.99	31.073	132.00	80.36	1908.77	1338.73	41.578
63.00	32.57	964.06	734.82	31.337	133.00	80.99	1921.87	1347.33	41.677
64.00	33.38	980.26	745.51	31.594	134.00	81.62	1934.99	1355.94	41.775
65.00	34.18	996.42	756.07	31.844	135.00	82.25	1948.12	1364.58	41.873
66.00	34.96	1012.53	766.49	32.088	136.00	82.89	1961.27		41.971
67.00	35.72	1028.56	776.78	32.326	137.00	83.52	1974.43	1381.91	42.067
68.00	36.47	1044.51	786.96	32.557	138.00	84.15	1987.60	1390.61	42.163
69.00	37.21	1060.35	797.01	32.784	139.00	84.78	2000.79	1399.32	42.259
70.00	37.94	1076.05	806.94	33.004	140.00	85.41	2014.00	1408.06	42.354
71 00									
71.00	38.66	1091.59	816.75	33.220	141.00	86.04	2027.21	1416.81	42.449
72.00	39.39	1106.94	826.45	33.430	142.00	86.67	2040.45	1425.58	42.543
73.00	40.11	1122.10	836.03	33.636	143.00	87.30	2053.70	1434.38	42.637
74.00	40.84	1137.05	845.50	33,838	144.00	87.93	2066.96	1443.19	42.730
75.00	41.58	1151.79	854.86	34.034	145.00	88.56	2080.24	1452.02	42.823
76-00	42.33	1166.31	864.11	34.227	146.00	89.19	2093.54	1460.87	42.915
77.00	43.09	1180.62	873.25	34.416	147.00	89.81	2106.85	1469.75	43.006
78.00	43.87	1194.74	882.30	34.601	148.00	90.44	2120.17	1478.64	43.098
79.00	44.65	1208.68	891.26	34.782	149.00	91.07	2133.52	1487.55	43.188
80.00	45.45	1222.48	900.13	34.959	150.00	91.70	2146.87	1496.48	43.278
81.00	46 10	1224 47	000 00						
81.00	46.18	1236.47	908.98	35.133	151.00	92.32	2160.23	1505.42	43.368
82.00	46.91	1250.38	917.75	35.304	152.00	92.94	2173.60	1514.37	43.456
83.00	47.64	1264.19	926.47	35.472	153.00	93.56	2186.99	1523.35	43.544
84.00	48.36	1277.93	935.12	35.636	154.00	94.18	2200.39	1532.35	43.632
85.00	49.07	1291.59	943.72	35.798	155.00	94.80	2213.81	1541.36	43.719
86.00	49.78	1305.19	952.27	35.957	156.00	95.42	2227.25	1550.40	43.806
87.00	50.49	1318.72	960.78	36.113	157.00	96.04	2240.69	1559.45	43.892
88.00	51.19	1332.20	969.24	36.267	158.00	96.66	2254.16	1568.52	43.978
89.00	51.89	1345.64	977.68	36.419	159.00	97.28	2267.64	1577.61	44.063
90.00	52.58	1359.03	986.09	36,568	160.00	97.90	2281.13	1586.72	44.148

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)	10.01,	(J/GM)		(K)	(CC/GM)		(J/GM)	1010
,	100 0.07				,				
161.00	98.52	2294.64	1595.85	44.232	231.00	140.90	3267.51	2268.14	49.241
162.00	99.13	2308.17	1605.00	44.316	232.00	141.49	3281.72	2278.11	49.302
163.00	99.75	2321.71	1614.17	44.400	233.00	142.09	3295.94	2288.09	49.363
164.00	100.37	2335.26	1623.35	44.483	234,00	142.69	3310.17	2298.09	49.424
165.00	100.98	2348.83	1632.55	44.565	235.00	143.29	3324.40	2308.09	49.485
166.00	101.60	2362.41	1641.77	44.647	236.00	143.88	3338.65	2318.11	49.545
167.00	102.21	2376.01	1651.01	44.729	237.00	144.48	3352.90	2328.13	49.605
168.00	102.83	2389.62	1660.27	44.810	238.00	145.07	3367.17	2338.17	49.665
169.00	103.44	2403.25	1669.54	44.891	239.00	145.67	3381.44	2348.21	49.725
170.00	104.06	2416.89	1678.83	44.971	240.00	146.27	3395.72	2358.27	49.785
171 00	104 67	2420 55	1400 15	45 051	241.00	144 94	3610 01	2260 22	40 944
171.00	104.67	2430.55	1688.15	45.051	241.00	146.86	3410.01	2368 • 33	49.844
172.00	105.28	2444.23	1697.48	45.131	242.00	147.46	3424.31	2378.41	49.903
173.00	105.89	2457.92 2471.62	1706.83	45.210	243.00 244.00	148.05 148.65	3438.62 3452.93	2388.49 2398.58	49.962
174.00	106.50		1716.19	45.289					50.020
175.00 176.00	107.11	2485.33	1725•57 1734•97	45.367	245.00	149.24	3467.25	2408 • 68	50•079
	107.73	2499.06		45,445	246.00	149.84	3481.57	2418.78	50 • 137
177.00	108.34	2512-80	1744.38	45.523	247.00	150.43	3495.91	2428.90 2439.02	50 • 195
178.00	108.95	2526.56 2540.32	1753.80	45.600	248.00	151.03	3510.24 3524.59		50.253
179.00	109.56	2540.32	1763.24	45.677	249.00	151.62		2449.14	50.310
180.00	110.16	2554.10	1772.70	45.753	250.00	152.22	3538.94	2459.28	50.368
181.00	110.77	2567.89	1782.17	45.830	251.00	152.81	3553.29	2469.41	50.425
182.00	1138	2581.69	1791.65	45.905	252.00	153.40	3567.65	2479.56	50.482
183.00	111.99	2595.50	1801.15	45.981	253.00	154.00	3582.01	2489.70	50.539
184.00	112.60	2609.32	1810.66	46.056	254.00	154.59	3596.37	2499.86	50-595
185.00	113.21	2623.15	1820.18	46.131	255.00	155.19	3610.74	2510.01	50.651
186.00	113.81	2637.00	1829.71	46.205	256.00	155.78	3625.11	2520.17	50.708
						156.37	3639.48	2530.33	50.764
187.00 188.00	114.42	2650•85 2664•71	1839.26 1848.82	46.279 46.353	257•00 258•00	156.97	3653.85	2540.50	50.819
	115.03	2678.58	1858.38	46.426	259.00	157.56	3668.23	2550.67	50.875
189.00 190.00	115.63 116.24	2692.45	1867.96	46.499	260.00	158.15	3682.60	2560.83	50.930
190400	110024	2072647	1007899	40.477	200.00	170017	2002.00	2300103	304730
191.00	116.85	2706.34	1877.55	46.572	261.00	158.74	3696.98	2571.00	50.985
192.00	117.45	2720.23	1887.15	46.644	262.00	159.34	3711.35	2581.18	51.040
193.00	118.06	2734.14	1896.76	46.716	263.00	159.93	3725.73	2591.35	51.095
194.00	118.66	2748.05	1906.38	46.788	264.00	160.52	3740.11	2601.52	51.150
195.00	119.27	2761.96	1916.01	46.859	265.00	161.11	3754.49	2611.70	51.204
196.00	119.87	2775.89	1925.64	46.930	266.00	161.71	3768.86	2621.87	51.259
197.00	120.48	2789.82	1935.29	47.001	267.00	162.30	3783.24	2632.04	51.313
198.00	121.08	2803.76	1944.95	47.071	268.00	162.89	3797.62	2642.22	51.366
199.00	121.68	2817.70	1954.61	47.141	269.00	163.48	3811.99	2652.39	51.420
200.00	122.29	2831.66	1964.28	47.211	270.00	164.08	3826.37	2662.57	51.474
			4 •						
201.00	122.89	2845.60	1973.94	47.281	271.00	164.67	3840.74	2672.74	51.527
202.00	123.49	2859.55	1983.61	47.350	272.00	165.26	3855.12	2682.92	51.580
203.00	124.10	2873.50	1993.29	47.419	273.00	165.85	3869.49	2693.10	51.633
204.00	124.70	2887.46	2002.98	47.488	274.00	166.44	3883.86	2703.27	51.686
205.00	125.30	2901.43	2012.67	47.556	275.00	167.04	3898.24	2713.45	51.739
206.00	125.90	2915.41	2022.38	47.624	276.00	167.63	3912.62	2723.63	51.791
207.00	126.51	2929.39	2032.09	47.692	277.00	168.22	3926.99	2733.81	51.843
208.00	127.11	2943.38	2041.81	47.760	278.00	168.81	3941.37	2743.99	51.895
209.00	127.71	2957.38	2051.54	47.827	279.00	169.40	3955.75	2754.18	51.947
210.00	128.31	2971.38	2061.28	47.894	280.00	170.00	3970.13	2764.37	51.999
		2000							
211.00	128.91	2985.39	2071.02	47.961	281.00	170.59	3984.52	2774.56	52.050
212.00	129.51	2999.41	2080.78	48.027	282.00	171.18	3998.91	2784.76	52.102
213.00	130.11	3013.44	2090.55	48.094	283.00	171.77	4013.31	2794.96	52.153
214.00	130.71	3027.48	2100.32	48.159	284.00	172.36	4027.71	2805.17	52.204
215.00	131.31	3041.52	2110.11	48.225	285.00	172.95	4042.11	2815.38	52.255
216.00	131.91	3055.58	2119.91	48.291	286.00	173.54	4056.52	2825.60	52.305
217.00	132.51	3069.64	2129.71	48.356	287.00	174.14	4070.94	2835.83	52.356
218.00	133.11	3083.71	2139.53	48.421	288.00	174.73	4085.37	2846.07	52.406
219.00	133.71	3097.79	2149.36	48.485	289.00	175.32	4099.81	2856.32	52.456
220.00	134.31	3111.88	2159.19	48.549	290.00	175.91	4114.25	2866.58	52.506
221 60	124 01	2125 00	2140 04	40 434	201 00	174 6-	4120 71	2974 04	60 555
221.00	134.91	3125.98	2169.04	48.614	291.00	176.50	4128.71	2876.84	52.555 52.605
222.00	135.51	3140.09	2178.90	48.677	292.00	177.09	4143.17	2887.12	52.605
223.00	136.11	3154.21	2188.77	48.741	293.00	177.68	4157.65	2897.42	52.65
224.00	136.71	3168.34	2198.65	48.804	294.00	178.27	4172.14	2907.72	52.7()
225.00	137.31	3182.47	2208.55	48.867	295.00	178.86	4186.64	2918.04	52.752
226.00	137.91	3196.62	2218.45	48.930	296.00	179.45	4201.16	2928.37	52.801
227.00	138.51	3210.78	2228.37	48.993	297.00	180.04	4215.69	2938.71	52-849
228.00	139.10	3224.95	2238,29	49.055	298.00	180.63	4230 • 23	2949.07	52.898
229.00	139.70	3239.13	2248.23	49.117	299.00	181.21	4244.78	2959.44	52.946
230.00	140.30	3253.32	2258.18	49.179	300.00	181.80	4259.35	2969.83	52.994

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	49.96	1367.34	987.74	36.372
					92.00	50.62	1380.76	996.27	36.516
					93.00	51.27	1394.15	1004.78	36.658
					94.00	51.92	1407.52	1013.27	36.799
					95.00	52.57		1021.75	36.939
					96.00	53.21	1434.22	1030.20	37.079
					97.00	53.85		1038.64	37.219
					98.00	54.49		1047.07	37.358
					99.00	55.12	1474.22	1055.47	37.497
30.00	13.89	432.56	327.81	19.450	100.00	55.75	1487.55	1063.86	37.636
31.00	14.02	443.29	336.23	19.790	101.00	56.39	1500.81	1072.29	37.769
32.00	14.19	454.57	345.36	20.140	102.00	57.02	1514.06	1080.72	37.899
33.00	14.38	466.39	355.15	20.499	103.00	57.65	1527.28	1089.15	38.029
34.00	14.61	478.73	365.55	20.866	104.00	58.29	1540.50	1097.58	38.156
35.00	14.86	491.57	376.51	21.240	105.00	58.92	1553.70	1106.00	38.283
36.00	15.15	504.90	387.97	21.618	106.00	59.54	1566.88	1114.43	38.408
37.00	15.46	518.69	399.89	22.001	107.00	60.17		1122.85	38.532
38.00	15.79	532.93	412.20	22.387	108.00	60.79	1593.21	1131.27	38.654
39.00	16.16	547.59	424.87	22.775	109.00	61.42	1606.35	1139.68	38.775
40.00	16.55	562.66	437.83	23.163	110.00	62.04	1619.48	1148.10	38.895
41 00	14 04	578 00	451.04	23.551	111.00	62.66	1632.59	1156.51	39.013
41.00	16.96	578.09	451.04	23.937	112.00	63.28	1645.69	1164.92	39.131
42.00	17.40	593.88	464.43		113.00	63.89	1658.78	1173.33	39.247
43.00 44.00	17.86	610.00	477.98	24.322 24.703	114.00	64.51	1671.85	1181.74	39.362
	18.35 18.86	626.41	491.61 505.30	25.080	115.00	65.12	1684.91	1190.14	39.475
45.00		643.10		25.452	116.00	65.73	1697.96	1198.55	39.588
46.00	19.38	660•03	518.99			66.34	1711.00	1206.96	39.699
47.00	19.93	677.18	532.64	25.818 26.179	117.00 118.00	66.95	1724.03	1215.37	39.810
48.00	20.50	694.51	546.22		119.00	67.55	1737.05	1223.78	39.919
49.00	21.08	712•01 729•64	559.68	26.533 26.879	120.00	68.16	1750.07	1232.19	40.027
50.00	21.69	127004	572.99	20.019	120.00	00.10	1/3000/	1232417	400027
51.00	22.30	747.36	586.12	27.218	121.00	68.76	1763.08	1240.61	40.134
52.00	22.94	765.17	599.04	27.549	122.00	69.36	1776.09	1249.03	40.240
53.00	23.58	783.02	611.74	27.872	123.00	69.96	1789.09	1257.46	40.346
54.00	24.24	800.88	624.19	28,186	124.00	70.56	1802.09	1265.90	40.450
55.00	24.91	818.74	636.37	28,493	125.00	71.16	1815.10	1274.35	40.554
56.00	25.60	836.13	648.27	28.790	126.00	71.75	1828.19	1282.87	40.658
57.00	26.30	854.16	660.44	29.027	127.00	72.35	1841.28	1291.41	40.761
58.00	26.99	871.99	671.28	29.363	128.00	72.95	1854.38	1299.96	40.864
59.00	27.68	889.58	681.42	29.746	129.00	73.55	1867.50	1308.53	40.966
60.00	28.38	906.92	691.27	30.140	130.00	74.14	1880.62	1317.12	41.067
61.00	29.08	924.00	701.13	30.520	131.00	74.74	1893.76	1325.72	41.167
62.00	29.78	940.83	711.16	30.872	132.00	75.33	1906.91	1334.34	41.267
63.00	30.50	957.43	721.44	31.188	133.00	75.92	1920.07	1342.98	41.367
64.00	31.22	973.80	731.97	31.468	134.00	76.52	1933.25	1351.64	41.465
65.00	31.94	989.96	742.74	31.714	135.00	77.11	1946.43	1360.32	41.564
66.00	32.68	1005.94	753.67	31.930	136.00	77.70	1959.64	1369.02	41.661
67.00	33.41	1021.74	764.69	32.123	137.00	78.29	1972.85	1377.74	41.758
68.00	34.15	1037.39	775.72	32.299	138.00	78.88	1986.09	1386.48	41.855
69.00	34.89	1052.90	786.68	32.465	139.00	79.47	1999.33	1395.23	41.951
70.00	35.63	1068.28	797.50	32.628	140.00	80.07	2012.60	1404.01	42.046
71.00	36.36	1083.53	808.12	32.791	141.00	80.66	2025.87	1412.81	42.141
72.00	37.09	1098.68	818.49	32,960	142.00	81.24	2039.17	1421.63	42.236
73.00	37.81	1113.72	828.59	33.138	143.00	81.83	2052.48	1430.47	42.330
74.00	38.52	1128.65	838.40	33.324	144.00	82.42	2065.80	1439.33	42.423
75.00	39.23	1143.49	847.92	33.521	145.00	83.01	2079.14	1448.20	42.516
76.00	39.92	1158.22	857.18	33.727	146.00	83.60	2092.49	1457.10	42.608
77.00	40.61	1172.86	866.19	33.941	147.00	84.19	2105.86	1466.02	42.700
78.00	41.29	1187.39	874.99	34.160	148.00	84.78	2119.25	1474.95	42.792
79.00	41.96	1201.81	883.63	34.382	149.00	85.36	2132.65	1483.91	42.883
80.00	42.63	1216.13	892.16	34.602	150.00	85.95	2146.06	1492.88	42.973
81.00	43.29	1230.35	900.61	34.819	151.00	86.53	2159.47	1501.86	43.062
82.00	43.95	1244.46	909.04	35.028	152.00	87.11	2172.90	1510.86	43.151
83.00	44.61	1258.46	917.50	35.227	153.00	87.70	2186.34	1519.88	43.240
84.00	45.27	1272.36	926.00	35.414	154.00	88.28	2199.79	1528.91	43.328
85.00	45.94	1286.16	934.60	35.586	155.00	88.86	2213.26	1537.96	43.415
86.00	46.60	1299.87	943.30	35.743	156.00	89.44	2226.74	1547.03	43.502
87.00	47.27	1313.49	952.11	35.884	157.00	90.02	2240.24	1556.12	43.589
88.00	47.94	1327.02	961.05	36.011	158.00	90.60	2253.75	1565.23	43.675
89.00	48.62	1340.49	970.08	36.124	159.00	91.18	2267.27	1574.35	43.760
90.00	49.31	1353.90	979.20	36.226	160.00	91.76	2280.81	1583.49	43.845

TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					221 22		2242 22		
161.00	92.33	2294.36	1592.65	43.930	231.00	131.97	3269.03	2266.15	48.948
162.00	92.91	2307.92	1601.82	44.014	232.00	132.52	3283.27	2276.15	49.010
163.00	93.49	2321.50	1611.01	44.098	233.00	133.08	3297.52	2286.16	49.071
164.00	94.06	2335.09	1620.22	44.181	234.00	133.64	3311.78	2296.17	49.132
165.00	94.64	2348.69	1629.45	44.264	235.00	134.20	3326.04	2306.20	49.193
166.00	95.22	2362.31	1638.69	44.346	236.00	134.76	3340.31	2316.23	49.253
167.00	95.79	2375.94	1647.95	44.428	237.00	135.31	3354.59	2326.28	49.313
168.00	96.37	2389.58	1657.22	44.509	238.00	135.87	3368.88	2336.33	49.373
169.00	96.94	2403.23	1666.51	44.590	239.00	136.43	3383.17	2346.39	49.433
170.00	97.52	2416.90	1675.82	44.671	240.00	136.98	3397.47	2356.46	49.493
171.00	98.09	2430.58	1685.14	44.751	241.00	137.54	3411.78	2366.53	49.552
172.00	98.66	2444.27	1694.48	44.831	242.00	138.10	3426.09	2376.62	49.611
173.00	99.24	2457.98	1703.83	44.910	243.00	138.65	3440.41	2386.71	49.670
174.00	99.81	2471.69	1713.20	44.989	244.00	139.21	3454.73	2396.80	49.729
175.00	100.38	2485.42	1722.58	45.068	245.00	139.77	3469.06	2406.91	49.787
176.00	100.95	2499.16	1731.97	45.146	246.00	140.32	3483.40	2417.02	49.846
177.00	101.52	2512.91	1741.38	45.224	247.00	140.88	3497.74	2427.13	49.904
178.00	102.09	2526.67	1750.81	45.301	248.00	141.43	3512.08	2437.25	49.962
179.00	102.66	2540.44	1760.24	45.379	249.00	141.99	3526.43	2447.38	50.019
			1769.69	45.455	250.00	142.54		2457.51	50.077
180.00	103.23	2554.22	1707.07	474433	270400	142474	3540.79	2437631	50.077
181.00	103.80	2568.01	1779.16	45.532	251.00	143.10	3555.14	2467.65	50.134
182.00	104.37	2581.82	1788.63	45.607	252.00	143.65	3569.50	2477.79	50.191
183.00	104.94	2595.63	1798.12	45.683	253.00	144.21	3583.87	2487.94	50.248
184.00	105.51	2609.45	1807.63	45.758	254.00	144.76	3598.24	2498.09	50.304
185.00	106.08	2623.29	1817.14	45.833	255.00	145.32	3612.61	2508.25	50.361
186.00	106.64	2637.13	1826.67	45.908	256.00	145.87	3626.98	2518.40	50.417
187.00	107.21	2650.98	1836.20	45.982	257.00	146.43	3641.35	2528.57	50.473
188.00	107.78	2664.85	1845.76	46.055	258.00	146.98	3655.73	2538.73	50.529
189.00	108.35	2678.72	1855.32	46.129	259.00	147.53	3670.11	2548.90	50.584
190.00	108.91	2692.60	1864.89	46.202	260.00	148.09	3684.49	2559.07	50.640
190400	100.71	2072.00	1004803	40.202	200.00	140.09	2004843	2239601	201040
191.00	109.48	2706.49	1874.48	46.275	261.00	148.64	3698.88	2569.24	50.695
192.00	110.05	2720.39	1884.07	46.347	262.00	149.20	3713.26	2579.42	50.750
193.00	110.61	2734.30	1893.68	46.419	263.00	149.75	3727.65	2589.59	50.805
194.00	111.18	2748.21	1903.30	46.491	264.00	150.30	3742.04	2599.77	50.860
195.00	111.74	2762.14	1912.92	46.563	265.00	150.86	3756.42	2609.95	50.914
196.00	112.31	2776.07	1922.56	46.634	266.00	151.41	3770.81	2620.14	50.968
197.00	112.87	2790.01	1932.21	46.705	267.00	151.96	3785.21	2630.32	51.023
198.00	113.44	2803.97	1941.87	46.775	268.00	152.52	3799.60	2540.51	51.076
199.00	114.00	2817.93	1951.54	46.846	269.00	153.07	3813.99	2650.70	51.130
200.00	114.57	2831.89	1961.22	46.916	270.00	153.62	3828.38	2660.89	51.184
	_							_	
201.00	115.13	2845.87	1970.90	46.985	271.00	154.18	3842.78	2671.08	51.237
202.00	115.70	2859.85	1980.60	47.055	272.00	154.73	3857.18	2681.27	51.290
203.00	116.26	2873.83	1990.30	47.124	273.00	155.28	3871.57	2691.47	51.343
204.00	116.82	2887.83	2000.02	47.193	274.00	155.84	3885.97	2701.67	51.396
205.00	117.39	2901.83	2009.74	47.261	275.00	156.39	3900.38	2711.87	51.449
206.00	117.95	2915.85	2019.47	47.329	276.00	156.94	3914.78	2722.07	51.501
207.00	118.51	2929.87	2029.22	47.397	277.00	157.50	3929.18	2732.27	51.554
208.00	119.08	2943.90	2038.97	47.465	278.00	158.05	3943.59	2742.48	51.606
209.00	119.64	2957.94	2048.74	47.532	279.00	158.60	3958.00	2752.69	51.658
210.00	120.20	2971.99	2058.51	47.600	280.00	159.15	3972.42	2762.91	51.709
211.00	120.76	2986.04	2068.30	47.666	281.00	159.71	3986.83	2773.13	51.761
212.00	121.32	3000.11	2078.09	47.733	282.00	160.26	4001.25	2783.35	51.812
213.00	121.89	3014.18	2087.90	47.799	283.00	160.81	4015.68	2793.58	51.864
214.00	122.45	3028.27	2097.71	47.865	284.00	161.36	4030.10	2803.81	51.915
215.00	123.01	3042.36	2107.54	47.931	285.00	161.92	4044.54	2814.05	51.965
216.00	123.57	3056.46	2117.37	47.997	286.00	162.47	4058.98	2824.30	52.016
217.00	124.13	3070.57	2127.22	48.062	287.00	163.02	4073.42	2834.55	52.066
218.00	124.69	3084.69	2137.08	48.127	288.00	163.57	4087.87	2844.80	52.117
219.00	125.25	3098.81	2146.95	48.191	289.00	164.13	4102.33	2855.07	52.167
220.00	125.81	3112.95	2156.82	48.256	290.00	164.68	4116.79	2865.34	52.217
201		212-			201 -	1/2 00		2025 45	
221.00	126.37	3127.10	2166.71	48.320	291.00	165.23	4131.26	2875.62	52.266
222.00	126.93	3141.25	2176.61	48.384	292.00	165.78	4145.74	2885.91	52.316
223.00	127.49	3155.41	2186.52	48.448	293.00	166.33	4160.23	2896.20	52.365
224.00	128.05	3169.59	2196.44	48.511	294.00	166.88	4174.72	2906.51	52.414
225.00	128.61	3183.77	2206.37	48.574	295.00	167.43	4189.22	2916.82	52.463
226.00	129.17	3197.96	2216.31	48.637	296.00	167.98	4203.73	2927.15	52.512
227.00	129.73	3212.15	2226.26	48.700	297.00	168.53	4218.25	2937.48	52.561
228.00	130.29	3226.36	2236.22	48.762	298.00	169.08	4232.77	2947.82	52.609
229.00	130.85	3240.58	2246.18	48.825	299.00	169.63	4247.31	2958.17	52.657
230.00	131.41	3254.80	2256.16	48.886	300.00	170.18	4261.85	2968.53	52.705

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TEMPER- ATURE	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)	TEMPER- ATURE	SPECIFIC VOLUME	ENTHALPY (J/GM)	INTERNAL ENERGY	ENTROPY (J/GM-K)
(K)	(CC/GM)	197047	(J/GM)	(3/GH-K)	(K)	(CC/GM)	(5/5-/	(J/GM)	(0,0,0,
,									
					91.00	47.08	1362.63	981.02	36.057
					92.00	47.69	1376.15	989.57	
					93.00 94.00	48.30 48.91	1389.64 1403.11	998.11 1006.64	36.351 36.495
					95.00	49.52	1416.56	1015.17	
					96.00	50.13		1023.71	36.779
					97.00	50.73		1032.24	
					98.00	51.33		1040.79	
					99.00	51.93		1049.34	37.191
30.00	13.76	435.75	324.21	19.412	100.00	52.53	1483.68	1057.90	37.325
31.00	13.89	445.58	333.09	19.740	101.00	53.12	1497.04	1066.42	37.458
32.00	14.04	456.14	342.47	20.076	102.00	53.72		1074.93	
33.00	14.23	467.40	352.32	20.421	103.00	54.32	1523.71	1083.44	37.719
34.00	14.43	479.32	362.61	20.773	104.00	54.91	1537.03	1091.95	37.847
35.00	14.67	491.88	373.31	21.131	105.00	55.50		1100.46	
36.00	14.92	505.01	384.38	21.495	106.00	56.09	1563.61	1108.97	38.100
37.00	15.20	518.71	395.79	21.863	107.00	56.68		1117.47	
38.00	15.51	532.91	407.50	22.235	108.00	57.27		1125.96	
39.00	15.84	547.59	419.48	22.609	109.00	57.86		1134.45	
40.00	16.19	562.70	431.71	22.985	110.00	58.45	1616.59	1142.94	38.589
41.00	16.56	578.21	444.14	23,362	111.00	59.03	1629.79	1151.42	38.708
42.00	16.96	594.07	456.75	23.739	112.00	59.61	1642.98	1159.90	
43.00	17.37	610.26	469.49	24.115	113.00	60.19		1168.37	
44.00	17.81	626.71	482.34	24.490	114.00	60.77		1176.84	39.058
45.00	18.26	643.41	495.28	24.863	115.00	61.35	1682.43	1185.31	39.173
46.00	18.74	660.31	508.26	25.232	116.00	61.92	1695.55	1193.77	39.286
47.00	19.23	677.38	521.26	25,598	117.00	62.49		1202.22	
48.00	19.75	694.57	534.25	25.960	118.00	63.07		1210.68	39.509
49.00	20.28	711.86	547.20	26.317	119.00	63.64		1219.13	39.619
50.00	20.82	729.21	560.10	26.668	120.00	64.20	1747.90	1227.58	39.728
51.00	21.38	746.59	572.91	27.013	121.00	64.77	1760.96	1236.03	39.836
52.00	21.96	763.98	585.62	27.352	122.00	65.33	1774.01	1244.49	
53.00	22.55	781.33	598.20	27.684	123.00	65.90		1252.95	40.049
54.00	23.15	798.64	610.65	28.009	124.00	66.46		1261.41	40.155
55.00	23.76	815.87	622.94	28.326	125.00	67.02		1269.89	
56.00	24.39	832.99	635.05	28.635	126.00	67.58	1826.29	1278.45	40.364
57.00	25.02	850.13	647.08	28,941	127.00	68-14		1287.03 1295.62	
58.00 59.00	25.66 26.30	866.92 883.50	658.77 670.22	29.234 29.516	128.00 129.00	68•71 69•27		1304.23	
60.00	26.95	899.93	681.48	29.790	130.00	69.83		1312.86	40.775
61.00	27.60	916.28	692.59	30.058	131.00	70.39		1321.50	
62.00	28.26	932.58	703.59	30.321	132.00	70.94		1330.16	
63.00	28.92	948.85	714.50	30.580	133.00	71.50		1338.84	
64.00	29.59 30.26	965.09 981.29	725.31 736.05	30.836	134.00	72•06 72•62	1931.78 1945.02	1347.54 1356.25	41.176 41.274
65.00 66.00	30.94	997.44	746.70	31.087 31.334	135.00 136.00	73.17		1364.99	41.372
67.00	31.62	1013.51	757.25	31.577	137.00	73.73	1971.53	1373.74	41.470
68.00	32.30	1029.50	767.72	31.815	138.00	74.29		1382.52	41.566
69.00	32.97	1045.37	778.08	32.048	139.00	74.84		1391.31	41.663
70.00	33.65	1061.13	788.34	32,276	140.00	75.40		1400.12	41.759
71.00	34.33	1076.74	798 48	32.499	141.00	75.95	2024.75	1408.95	41.854
72.00	35.00	1092.21	808.50	32.716	142.00	76.51	2038.09	1417.81	41.948
73.00	35.66	1107.52	818.41	32.928	143.00	77.06		1426.68	42.042
74.00	36.33	1122.67	828.20	33,134	144.00	77.61	2064.82	1435.57	42.136
75.00	36.98	1137.66	837.86	33.335	145.00	78.17		1444.48	42.229
76.00	37.64	1152.49	847.41	33.531	146.00	78.72		1453.42	42.322
77.00	38.28	1167.17	856.85	33.722	147.00	79.27		1462.37	42.414
78.00	38.93	1181.70	866.17	33.908	148.00	79.82		1471.34	42.505
79.00	39.56	1196.11	875.40	34.090	149.00	80.38	2131.90	1480 • 33	42.596
80.00	40.20	1210.39	884.53	34.269	150.00	80.93	2145.36	1489.34	42.687
81.00	40.83	1224.56	893.57	34.443	151.00	81.48	2158.82	1498.35	42.776
82.00	41.46	1238.63	902.54	34.615	152.00	82.02		1507.38	42.865
83.00	42.08	1252.62	911.43	34.784	153.00	82.57		1516.43	42.954
84.00	42.71	1266.54	920.27	34.950	154.00	83.12	2199.27	1525.49	43.042
85.00	43.33	1280.40	929.06	35.114	155.00	83.66	2212.78	1534.58	43.130
86.00	43.96	1294.21	937.80	35.276	156.00	84.21	2226.31	1543.68	43.217
87.00	44.58	1307.97	946.50	35.437	157.00	84.75	2239.84	1552.80	43.304
88.00 89.00	45.21 45.84	1321.71	955.17 963.82	35.595 35.752	158.00	85.30 85.84	2253.40 2266.96	1561.93 1571.09	43.390 43.476
90.00	46.46	1335.41 1349.08	972.45	35.732 35.907	159.00 160.00	86.39		1580.26	43.561
70 00	70 0 40	174200	712073	JJ 6 70 1	10000	00.039	2200174	1700020	- JUL 1 UL

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
141 00	94 03	2204 12	1880 46	43.646	231.00	124.15	3270.59	2264.19	48.674
161.00	86.93 87.47	2294.13 2307.73	1589.45 1593.65	43.730	232.00	124.68	3284.86	2274.21	48.736
162.00		2321.35	1607.87	43.814	233.00	125.20	3299.13	2284.23	48.797
163.00	88.02	2334.98	1617.11	43.898	234.00	125.72	3313.41	2294.27	48.858
164.00	88.56 89.10		1626.36	43.981	235.00	126.25	3327.70	2304.31	48.919
165.00	89.64	2348.62 2362.27	1635.62	44.063	236.00	126.77	3341.99	2314.36	48.979
166.00		2375.94	1644.91	44.145	237.00	127.29	3356.29	2324.42	49.040
167.00 168.00	90.18 90.72	2389.61	1654.20	44.227	238.00	127.82	3370.60	2334.49	49.100
169.00	91.26	2403.30	1663.52	44.308	239.00	128.34	3384.91	2344.56	49.160
170.00	91.80	2417.00	1672.84	44.389	240.00	128.86	3399.23	2354.64	49.220
170.00	71.00	2417800	1012104	44,307	240400	120000	3377623	223404	470220
171.00	92.34	2430.70	1682.18	44.470	241.00	129.39	3413.55	2364.73	49.277
172.00	92.88	2444.42	1691.53	44.550	242.00	129.91	3427.88	2374.82	49.338
173.00	93.42	2458.15	1700.90	44.629	243.00	130.43	3442.21	2384.92	49.397
174.00	93.95	2471.88	1710.28	44.708	244.00	130.95	3456.55	2395.03	49.456
175.00	94.49	2485.63	1719.67	44.787	245.00	131,47	3470.89	2405.14	49.515
176.00	95.03	2499.39	1729.07	44.866	246.00	132.00	3485.24	2415.25	49.573
177.00	95.56	2513.16	1738.49	44.944	247.00	132.52	3499.59	2425.38	49.631
178.00	96.10	2526.93	1747.92	45.021	248.00	133.04	3513.95	2435.50	49.689
179.00	96.64	2540.72	1757.37	45.098	249.00	133.56	3528.31	2445.64	49.747
180.00	97.17	2554.52	1766.82	45.175	250.00	134.08	3542.67	2455.77	49.804
181.00	97.71	2568.32	1776.29	45.252	251.00	134.60	3557.03	2465.92	49.861
182.00	98.24	2582.14	1785.77	45.328	252.00	135.12	3571.40	2476•06	49.918
183.00	98.77	2595.97	1795.27	45.403	253.00	135.64	3585.78	2486.21	49.975
184.00	99.31	2609.80	1804.77	45.479	254.00	136.16	3600.15	2496•37	50.032
185.00	99.84	2623.65	1814.29	45.554	255.00	136.69	3614.53	2506.52	50.088
186.00	100.38	2637.50	1823.82	45.628	256.00	137.21	3628.91	2516.69	50.145
187.00	100.91	2651.37	1833.36	45.703	257.00	137.73	3643.30	2526.85	50.201
188.00	101.44	2665.24	1842.91	45.777	258.00	138.25	3657.68	2537.02	50.257
189.00	101.98	2679.12	1852.48	45.850	259.00	138.77	3672.07	2547.19	50.312
190.00	102.51	2693.01	1862.06	45.924	260.00	139.29	3686.46	2557.37	50.368
191.00	103.04	2706.92	1871.64	45.996	261.00	139.81	3700.85	2567.55	50.423
192.00	103.57	2720.83	1881.24	46.069	262.00	140.33	3715.25	2577.73	50.478
193.00	104.10	2734.75	1890.85	46.141	263.00	140.84	3729.65	2587.91	50.533
194.00	104.63	2748.68	1900.48	46.213	264.00	141.36	3744.05	2398 • 10	50.588
195.00	105.17	2762.62	1910.11	46.285	265.00	141.88	3758.45	2608.29	50.642
196.00	105.70	2776.56	1919.76	46.356	266.00	142.40	3	2618.48	50.697
197.00	106.23	2790.52	1929.41	46.427	267.00	142.92	• 25	2628.67	50.751
198.00	106.76	2804.49	1939.08	46.498	268.00	143.44	3801.66	2638.87	50.805
199.00	107.29	2818.46	1948.76	46.568	269.00	143.96	3816.07	2649.07	50.859
200.00	107.82	2832.45	1958.45	46.638	270.00	144.48	3830.48	2659.27	50.912
201 00	100 25	2844 45	1069 15	44 700	271 00	145.00	2844 80	2440 40	50.966
201.00	108.35	2846.45	1968.15	46.708	271.00	145.00	3844.89	2669.48	
202.00	108.88	2860.45	1977.87	46.778	272.00	145.52	3859.31	2679.68	51.019
203.00	109.41	2874.47	1987.59	46.847	273.00	146.04	3873.73	2689.90	51.072
204.00	109.94	2888.50	1997.33	46.916	274.00	146.56 147.08	3888.14	2700.11	51.125
205.00	110.46	2902.53	2007.07	46.984	275.00	T 1 1 2 1	3902.57	2710.33	51.178
206.00	110.99	2916.57	2016.83	47.053	276.00	147.59	3916.99	2720.55	51.230
207.00	111.52	2930.63	2026.60	47.121	277.00	148.11	3931.42	2730•77 2741•00	51.283 51.335
208.00 209.00	112.05	2944.69	2036.38	47.189	278.00	148.63 149.15	3945.85 3960.28	2751.23	51.387
	112.58	2958.76	2046.17	47.256	279.00				51.438
210.00	113.11	2972.84	2055.97	47.323	280.00	149.67	3974.72	2761.46) L O 7 J O
211.00	113.63	2986.93	2065.78	47.390	281.00	150.19	3989.16	2771.70	51.490
212.00	114.16	3001.03	2075.61	47.457	282.00	150.71	4003.60	2781.94	51.541
213.00	114.69	3015.14	2085.44	47.523	283.00	151.23	4018.05	2792.19	51.593
214.00	115.22	3029.26	2095.29	47.590	284.00	151.74	4032.50	2802.44	51.644
215.00	115.74	3043.39	2105.14	47.655	285.00	152.26	4046.95	2812.70	51.695
216.00	116.27	3057.53	2115.01	47.721	286.00	152.78	4061.41	2822.96	51.745
217.00	116.80	3071.67	2124.88	47.786	287.00	153.30	4075.87	2833.23	51.796
218.00	117.32	3085.82	2134.77	47.851	288.00	153.82	4090.34	2843.50	51.846
219.00	117.85	3099.99	2144.67	47.916	289.00	154.33	4104.82	2853.78	51.896
220.00	118.38	3114.16	2154.57	47.981	290.00	154.85	4119.29	2864.06	51.946
					2,000	/ • • >		,	
221.00	118.90	3128.34	2164.49	48.045	291.00	155.37	4133.78	2874.35	51.996
222.00	119.43	3142.53	2174.42	48.109	292.00	155.89	4148.27	2884.65	52.045
223.00	119.95	3156.73	2184.35	48.173	293.00	156.40	4162.76	2894.95	52.095
224.00	120.48	3170.93	2194.30	48.236	294.00	156.92	4177.26	2905.26	52.144
225.00	121.00	3185.15	2204.26	48.300	295.00	157.44	4191.77	2915.57	52.193
226.00	121.53	3199.37	2214.22	48.363	296.00	157.95	4206.28	2925.90	52.242
227.00	122.05	3213.60	2224.20	48.426	297.00	158.47	4220.80	2936.22	52.290
228.00	122.58	3227.83	2234.18	48.488	298.00	158.99	4235.32	2946.56	52.339
229.00	123.10	3242.08	2244.17	48.550	299.00	159.50	4249.85	2956.90	52.387
230.00	123.63	3256.33	2254.18	48.612	300.00	160•02	4264.38	2767.25	52.435

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
						_			
					91.00	44.56	· - · · · ·	974.85	35.754
					92.00	45.14		983.47	35.903
					93.00	45.71	1385.75	992.06	36.050
					94.00	46.29	1399.27	1000.65	36.196
					95.00	46.86	1412.78	1009.22	36.339
					96.00	47.43	1426.26	1017.79	36.481
					97.00	48.00	1439.74	1026.36	36.621
					98.00	48.57	1453.21	1034.94	36.759
					99.00	49.13	1466.67	1043.52	36.896
30.00	13.65	436.22	321.55	19.330	100.00	49.70	1480.13	1052.11	37.031
23 00	12 77	*** **							
31.00	13.77	446.98	330.41	19.646	101.00	50.26	1493.52	1060.64	37.165
32.00	13.91	458.22	339.71	19.972	102.00	50.82	1506.88	1069.16	37.297
33.00	14.08	469.92	349.40	20.308	103.00	51.39	1520.24	1077.68	37.428
34.00	14.27	482.07	359.46	20.651	104.00	51.95	1533.57	1086.20	37.557
35.00	14.48	494.65	369.87	21.001	105.00	52.51	1546.90	1094.72	37•685
36.00	14.71	507.64	380.61	21.357	106.00	53.07	1560.21	1103.24	37.812
37.00	14.97	521.03	391.63	21.717	107.00	53.62	1573.51	1111.76	37.937
38.00	15+25	534.80	402.92	22.082	108.00	54.18	1586.80	1120.27	38.061
39.00	15.55	548.94	414.46	22.450	109.00	54.73	1600.08	1128.79	38.184
40.00	15.88	563.43	426.21	22.820	110.00	55.28	1613.35	1137.32	38.305
41.00	14 00	570 CC	420 15	22					
41.00	16.22	578.25	438.15	23.191	111.00	55.84	1626.60	1145.84	38.425
42.00	16.58	593.37	450.26	23.562	112.00	56.39	1639.85	1154.36	38.544
43.00	16.96	608.78	462.51	23.932	113.00	56.93	1653.09	1162.89	38.661
44.00	17.36	624.45	474.88	24.301	114.00	57.48	1666.32	1171.42	38•777
45.00	17.78	640.38	487.34	24.668	115.00	58.02	1679.54	1179.96	38.892
46.00	18.22	656.52	499.87	25.031	116.00	58.57	1692.75	1188.50	39.006
47.00	18.67	672.88	512.45	25.391	117.00	59.11	1705.96	1197.04	39.118
48.00	19.14	689.41	525.05	25.746	118.00	59.65	1719.16	1205.59	39.230
49.00	19.62	706.11	537.67	26.096	119.00	60.19	1732.35	1214.14	39.340
50.00	20.12	722.94	550.27	26.440	120.00	60.72	1745.54	1222.70	39.450
51.00	20.64	739.89	642 04	24 770					
52.no	21.16	756.93	562.84	26.778	121.00	61.26	1758.72	1231.26	39.558
53.00	21.70		575.35	27.109	122.00	61.79	1771.91	1239.83	39.665
		774.04	587.81	27.433	123.00	62.32	1785.09	1248.41	39.772
54.00	22.25	791.21	600.18	27.750	124.00	62.85	1798.27	1257.00	39.877
55.00	22.81	808.39	612.45	28.059	125.00	63.38	1811.45	1265.59	39.982
56.00	23.38	825.59	624.63	28.359	126.00	63.91	1824.68	1274.23	40.086
57.00	23.97	842.70	636.51	28.660	127.00	64.44	1837.91	1282.88	40.191
58.00	24.55	859.90	648.56	28.941	128.00	64.97	1851.15	1291.54	40.294
59.00	25.14	877.06	660.60	29.209	129.00	65.50	1864.40	1300.22	40.397
60.00	25.73	894.10	672.51	29.470	130.00	66.03	1877.65	1308.90	40.499
61.00	26.32	910.98	684.22	29.726	121 00				
62.00	26.93	927.66			131.00	66.56	1890.91	1317.60	40.601
63.00	27.54	944.15	695.68	29.980	132.00	67.08	1904.18	1326.32	40.701
64.00	28.16	960.43	706.89 717.85	30.233	133.00	67.61	1917.45	1335.04	40.802
65.00	28.78	976.53		30.486	134.00	68.14	1930.73	1343.79	40.901
66.00	29.41	992.46	728.58 739.10	30.737 30.986	135.00	68.66	1944.03	1352.54	41.000
67.00	30.04				136.00	69.19	1957.33		41.098
68.00	30.67	1008.24 1023.89	749.45	31.233	137.00	69.71	1970.64	1370.10	41.196
			759.65	31.476	138.00	70.24	1983.96	1378.90	41.293
69•00 70•00	31.31 31.94	1039•43 1054•86	769.74 779.73	31.715	139.00	70.76	1997.30	1387.72	41.390
1000	J1 • 74	1034900	779.73	31.948	140.00	71.29	2010.64	1396.55	41.486
71.00	32.58	1070.21	789.66	32.176	141.00	71.81	2072 00	1405 40	41 597
72.00	33.21	1085.49	799.54	32.398	142.00	72.33	2023.99	1405.40 1414.27	41.582
73.00	33.83	1100.69	809.37	32.614			2037.36		41.676
74.00	34.46	1115.82	819.16	32.823	143.00	72.86	2050.74	1423.16	41.771
75.00	35.07	1130.89	828.92	33.025	144.00	73.38	2064.13	1432.06	41.865
76.00	35.69	1145.87			145.00	73.90	2077.54	1440.98	41.958
77.00	36.29		838.65	33.222	146.00	74.42	2090.96	1449.91	42.051
78.00	36.89	1160.79 1175.61	848.32 857.95	33.412	147.00	74.94	2104.39	1458.87	42.143
79.00	37.49		857.95	33.597	148.00	75.46	2117.83	1467.84	42.235
80.00	38.08	1190.34	867.50	33.778	149.00	75.98	2131.29	1476.83	42.326
JJ#00	20.00	1204.97	876.99	33.954	150.00	76.50	2144.76	1485.84	42.417
81.00	38.67	1219.49	886.38	34.127	151.00	77.02	2158 24	1404 00	42 507
82.00	39.26	1233.90	895.68	34.297	152.00	77.54	2158.26	1494.88	42.507
83.00	39.84	1248.19	904.88	34.465			2171.76	1503.93	42.596
84.00	40.43	1262.35	913.96	34.630	153.00	78•05	2185.28	1513.01	42.685
85.00	41.02	1276.40	922.93		154.00	78.57	2198.82	1522.10	42.774
86.00	41.60	1290.32		34.795	155.00	79.09	2212.37	1531.21	42.861
87.00	42.19		931.79	34.958	156.00	79.60	2225.93	1540.34	42.949
88.00	42.19	1304.14 1317.94	940.53	35.121	157.00	80.11	2239.51	1549.48	43.036
89.00	43.38		949.18	35.282	158.00	80.63	2253.10	1558.65	43.122
90.00		1331.45	957.73	35.443	159.00	81.14	2266.70	1567.83	43.208
70 ¢ 170	43.98	1344.98	966.21	35.603	160.00	81.65	2280.32	1577.03	43.294

							ENTIME BY	THITEDNAL	ENTROPY
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY (J/GM)	INTERNAL ENERGY	(J/GM-K)
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME (CC/GM)	(37GM)	(J/GM)	107011 117
(K)	(CC/GM)		(J/GM)		(K)	(CC/GH)		(3,3,1,	
161.00	82.17	2293.95	1586.24	43.378	231.00	117.26	3272.20	2262.24	48.416
162.00	82.68	2307.59	1595.47	43.463	232.00	117.76	3286.48	2272.28	48.478
163.00	83.19	2321.25	1604.72	43.547	233.00	118.25	3300.78	2282.32	48.539
164.00	83.70	2334.92	1613.99	43.631	234.00	118.74	3315.08	2292.37	48.601
165.00	84.21	2348.60	1623.27	43.714	235.00	119.24	3329.38	2302.42	48.661
166.00	84.72	2362.29	1632.57	43.796	236.00	119.73	3343.69	2312.49	48.722
167.00	85.23	2376.00	1641.88	43.879	237.00	120.22	3358.01	2322.56	48.783
168.00	85.74	2389.71	1651.21	43.961	238.09	120.72	3372.34	2332.64	48.843
169.00	86.25	2403.44	1660.55	44.042	239.00	121.21	3386.66	2342.73	48.903
170.00	86.76	2417.18	1669.91	44.123	240.00	121.70	3401.00	2352.82	48.962
							2.25.21	22/2 22	(0.022
171.00	87.27	2430.92	1679.27	44.204	241.00	122.19	3415.34	2362.92	49.022
172.00	87.78	2444.67	1688.64	44.284	242.00	122.68	3429.68	2373.02	49.081
173.00	88.29	2458.43	1698.03	44.363	243.00	123.18	3444.03	2383.13	49.140
174.00	88.79	2472,19	1707.43	44.443	244.00	123.67	3458.38	2393.25	49.199 49.258
175.00	89.30	2485.97	1716.84	44,522	245.00	124.16	3472.74	2403.37	49.316
176.00	89.81	2499.76	1726.27	44.600	246.00	124.65	3487.10	2413.50	49.374
177.00	90.31	2513.55	1735.70	44.678	247.00	125.14	3501.47	2423.63 2433.77	49.432
178.00	90.82	2527.36	1745.15	44.756	248.00	125.63	3515.84	2443.91	49.490
179.00	91.32	2541.17	1754.62	44.834	249.00	126.13	3530 • 21	2454.06	49.548
180.00	91.83	2555.00	1764.09	44.911	250.00	126,62	3544.59	2434800	49,000
10		2540 00	1770 50	66 097	251.00	127.11	3558.97	2464.21	49.605
181.00	92.33	2568.83	1773.58	44.987 45.064	252.00	127.60		2474.37	49.662
182.00	92.84	2582.67	1783.07						49.719
183.00	93.34	2596.52	1792.58	45.139	253.00	128.09 128.58	3602.13	2494.69	49.776
184.00	93.84	2610.38	1802-11	45.215	254.00 255.00	129.07		2504.86	49.832
185.00	94.35	2624.25	1811.64	45.290	256.00	129.56		2515.03	49.889
186.00	94.85	2638.13	1821.18	45,365		130.05		2525.20	49.945
187.00	95.35	2652.01	1830 • 74	45.439	257•00 258•00	130.54		2535.38	50.001
188.00	95.86	2665.91	1840 • 31	45.514	259.00	131.03		2545.56	50.057
189.00	96.36	2679.81	1849.89	45.587	260.00	131.52		2555.74	50.112
190.00	96.86	2693.73	1859.48	45.661	200.00	131072	3000431	W222011	300220
101 00	07 26	2707.65	1869.08	45.734	261.00	132.01	3702.92	2565.93	50.167
191.00	97.36 97.86	2721.58	1878.69	45.807	262.00	132.50			50.223
192.00	98.36	2735.52	1888.32	45.879	263.00	132.99	·		50.278
193.00		2749.47	1897.95	45.951	264.00	133.48			50.332
194.00	98 • 87	2763.43	1907.60	46.023	265.00	133.97			
195.00	99.37	2777.40	1917.26	46.095	266.00	134.46			_
196.00	99.87		1926.93	46.166	267.00	134.95			50.496
197.00	100-37	2791.37 2805.36	1936.61	46.237	268.00	135.43			
198.00	100.87 101.37	2819.36	1946.30	46.307	269.00	135.92		A	
199.00	101.87	2833.36	1956.00	46.377	270.00	136.41			
200.00	101.01	2033430	1,,,,,,,	454511					
201.00	102.37	2847.38	1965.72	46.447	271.00	136.90	3847.09	2667.96	50.711
202.00	102.86	2861.41	1975.45	46.517	272.00	137.39	3861.52	2678.17	50.764
203.00	103.36	2875.45	1985.19	46.586	273.00	137.88	3875.95	2688 • 40	50.817
204.00	103.86	2889.50	1994.94	46.655	274.00	138.37	3890 • 39	2698 • 62	50.870
205.00	104.36	2903.56	2004.71	46.724	275.00	138.86	3904.82	2708 • 85	50.923
206.00	104.86	2917.62	2014.48	46.793	276.00	139.35	3919.26	2719.08	50.975
207.00	105.36	2931.70	2024.27	46.861	277.00	139.84	3933.70	2729.31	51.028
208.00	105.86	2945.78	2034.06	46.929	278.00	140.32	3948.15	2739.55	51.080
209.00	106.35	2959.88	2043.97	46.996	279.00	140.81	3962.60	2749.79	
210.00	106.85	2973.98	2053.69	47.064	280.00	141.30	3977.05	2760.03	51.184
211.00	107.35	2988.10	2063.52	47.131	281.00	141.79			
212.00	107.85	3002.22	2073.36	47.198	282.00	142.28			
213.00	108.34	3016.35	2083.21	47.264	283.00	142.77			
214.00	108.84	3030.50	2093.07	47.330	284.00	143.26			
215.00	109.34	3044.65	2102.94	47.396	285.00	143.74			
216.00	109.83	3058.81	2112.82	47.462	286.00	144.23			
217.00	110.33	3072.97	2122.72	47.528	287.00	144.72			
218.00	110.83	3087.15	2132.62	47.593	288.00	145.21			
219.00	111.32	3101.34	2142.53		289.00	145.70			
220.00	111.82	3115.53	2152.46	47.722	290.00	146.18	4121.76	2862.73	51.692
					201 6-	144 (7	, W134 3E	2373.03	51.741
221.00	112.31	3129.73	2162.39		291.00	146.67 147.16			
222.00	112.81	3143.94	2172.33		292.00				
223.00	113.30	3158.16	2182.29		293.00	147.65			_
224.00	113.80	3172.39	2192.25		294.00	148.13			
225.00	114.29		2202.22		295.00	148.62			
226.00	114.79	3200.87	2212.20		296.00	149.10			
227.00	115.28	3215.12	2222.19		297.00	149.59			
228.00	115.78	3229.38	2232.19		298.00	150.08			
239.00	116.27		2242.20		299.00	150.56			
230.00	116.77	3257.92	2252.22	48.355	300.00	151.05	4266•93	270J • 9	JZ • 101

70.0	O VIMOSEUS	INE I SUBAR							
TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- Ature (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					91.00	42.34	1254 81	040 76	25 440
					92.00	42.88	1354,81 1368,50	968.75 977.52	35.469 35.619
					93.00	43.43	1382.15	986.26	35.767
					94.00	43.97	1395,76	794.96	35.913
					95.00	44.51	1409.35	1003.63	36.057
					96.00	45.05	1422.91	1012.27	36.200
					97.00	45.59	1436.45	1020.88	36.340
					98.00	46.13	1449.96	1029.46	36.479
30.00	13.50	442 14	220 21	10 207	99.00	46.66	1463.47	1038.02	36.616
		443.16	320.31	19.297	100.00	47.20	1476.96	1046.54	36.752
31.00 32.00	13.62 13.76	451.91 461.39	327.47	19.599	101.00	47.73	1490.39	1055.12	36.887
33.00	13.93	471.57	335.41 344.08	19.910	102.00	48.26	1503.81	1063.69	37.020
34.00	14.11	482.43	353.41	20.232 20.561	103.00 104.00	48.80	1517.22	1072.26	37.151
35.00	14.31	493.92	363.35	20.898	105.00	49.33 49.86	1530.61	1080-82	37-281
36.00	14.53	506.02	373.84	21.241	106.00	50.38	1543.98 1557.34	1089.38 1097.94	37.410
37.00	14.77	518.69	384.83	21.590	107.00	50.91	1570.70	1106.50	37•537 37•663
38.00	15.02	531.91	396.27	21.943	108.00	51.44	1584.04	1115.06	37.787
39.00	15.30	545.64	408.08	22.300	109.00	51.96	1597.37	1123.63	37.910
40.00	15.59	559.83	420.23	22.659	110.00	52.48	1610.69	1132.19	38.032
41.00	15.91	574.46	432.65	23.019	111.00	53.01	1624.00	1140.76	38.153
42.00	16.24	589.49	445.30	23.381	112.00	53.53	1637.31	1149.34	38.272
43.00	16.59	604.88	458.12	23.742	113.00	54.04	1650.61	1157.91	38.390
44.00	16.95	620.60	471.07	24.101	114.00	54.56	1663.90	1166.50	38.507
45.00	17.33	636-60	484.09	24.459	115.00	55.08	1677.19	1175.08	38 • 622
46.00	17.73	652.86	497.16	24.815	116.00	55.59	1690.47	1183.68	38.737
47.00 48.00	18.14 18.57	669.35	510.21	25.166	117.00	56.10	1703.75	1192.28	38.850
49.00	19.02	686.01 702.83	523.21	25.514	118.00	56.62	1717.02	1200.89	38.962
50.00	19.48	719.77	536.12 548.92	25.856 26.194	119.00	57.12	1730.29	1209.50	39.073
51.00	19.95				120.00	57.63	1743.56	1218.12	39.183
52.00	20.43	736.79 753.86	561.57	26.525	121.00	58.14	1756.83	1226.75	39.292
53.00	20.93	770.96	574.04 586.32	26.850	122.00	58.64	1770.09	1235.39	39.400
54.00	21.44	788.06	598.39	27.168 27.479	123.00	59.15	1783.36	1244.03	39.507
55.00	21.96	805.14	610.22	27.782	124.00 125.00	59.65	1796.62	1252.69	39-613
56.00	22.47	822.16	621.83	28.079	126.00	60.15	1809.89	1261.35	39.718
57.00	23.02	839.19	633.70	28.372	127.00	60.65 61.16	1823.18 1836.48	1270.04 1278.74	39.824
58.00	23.57	856.00	644.34	28.648	128.00	61.66	1849.77	1287.44	39•929 40•033
59.00	24.12	872.64	654.34	28.914	129.00	62.16	1863.08	1296.16	40.033
60.00	24.67	889.14	664.13	29.173	130.00	62.66	1876.39	1304.89	40.239
61.00	25.23	905.52	673.96	29.429	131.00	63.16	1889.70	1313.63	40.341
62.00	25.79	921.82	684.01	29.683	132.00	63.66	1903.02	1322.39	40•341 40•442
63.00	26.36	938.03	694.33	29.935	133.00	64.16	1916.34	1331.15	40.542
64.00	26.94	954.16	704.95	30.187	134.00	64.66	1929.67	1339.93	40.642
65.00	27.52	970.22	715.82	30.437	135.00	65.16	1943.01	1348.72	40.742
66.00	28.10	986.21	726.89	30.685	136.00	65.66	1956.36	1357.53	40.841
67.00	28.69	1002.12	738.08	30.930	137.00	66.15	1969.71	1366.34	40.939
68.00	29.28	1017.94	749.30	31.172	138.00	66.65	1983.08	1375.18	41.036
69.00	29.87	1033.68	760.48	31.410	139.00	67.15	1996.45	1384.02	41.133
70.00	30.46	1049.33	771.55	31.643	140.00	67.64	2009.83	1392.88	41.229
71.00 72.00	31.65	1064.88	782.43	31.870	141.00	68.14	2023.22	1401.76	41.325
72.00 73.00	31.64 32.23	1080.33 1095.67	793.10	32.092	142.00	68.63	2036.62	1410-65	41.420
74.00	32.81	1110.90	803.51	32.307	143.00	69.13	2050.03	1419.56	41.515
75.00	33.39	1126.02	813.65 823.52	32.517	144.00	69.62	2063.46	1428.49	41.609
76.00	33.96	1141.04	833.14	32.720 32.918	145.00	70.12	2076.89	1437.43	41.703
77.00	34.53	1155.94	842.52	33.110	146.00	70.61	2090.34	1446.39	41.796
78.00	35.10	1170.73	851.71	33.297	147.00 148.00	71.10 71.59	2103.80 2117.28	1455.36	41.888
79.00	35.66	1185.41	860.73	33.480	149.00	72.09		1464.35	41.980
80.00	36.22	1199.99	869.64	33.658	150.00	72.58	2130.77 2144.27	1473.37 1482.40	42•072 42•163
81.00 82.00	36.78 37.34	1214.47	878.48	33.833	151.00	73.07	2157.80	1491.46	42-253
83.00	37.89	1228.85 1243.14	887.28	34.005	152.00	73.56	2171.34	1500.54	42.342
84.00	38.45	1257.34	896.10 904.96	34.175 34.342	153.00	74.05	2184.90	1509.64	42.431
85.00	39.00	1271.47	913.89	34.508	154.00	74.53	2198.47	1518.76	42.520
86.00	39.56	1285.51	922.92	34.672	155.00 156.00	75.02 75.51	2212.06	1527.90	42.608
87.00	40.11	1299.49	932.05	34.835	157.00	75.51 76.00	2225.66 2239.28	1537.06	42.695
88.00	40.67	1313.41	941.27	34.997	158.00	76.48	2252.91	1546.23 1555.42	42.782
89.00	41.23	1327.27	950.58	35.157	159.00	76.97	2266.55	1564.63	42•869 42•955
90.00	41.79	1341.07	959.95	35.317	160.00	77.45	2280.20	1573.86	43.041
						•		,	

					TEMPER	c0561516	ENTHALPY	INTERNAL	ENTROPY
TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC VOLUME	(J/GM)	ENERGY	(J/GM-K)
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)		(CC/GM)	(3704)	(J/GM)	107011 147
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/ GH)	
141 00	77.94	2293.87	1583.10	43.126	231.00	111.14	3273.85	2260.33	48.173
161.00	78.42	2307.56	1592.36	43.210	232.00	111.61	3288.16	2270.38	48.235
162.00	78.91	2321.25	1601.64	43,295	233.00	112.07	3302.47	2280.43	48.296
163.00	79.39	2334.96	1610.93	43.378	234.00	112.54	3316.79	2290.50	48.358
164.00	79.68	2348.68	1620.24	43.462	235.00	113.01	3331.11	2300.56	48.419
165.00	80.36	2362.41	1629.56	43.544	236.00	113.47	3345.44	2310.64	48.479
166.00	80.84	2376.15	1638.90	43.627	237.00	113.94	3359.77	2320.72	48.540
167.00 168.00	81.32	2389.90	1648.26	43.709	238.00	114.40	3374.11	2330.81	48.600
169.00	81.81	2403.67	1657.63	43.790	239.00	114.87	3388.45	2340.91	48.660
170.00	82.29	2417.44	1667.01	43.871	240.00	115.34	3402.81	2351.01	48.720
110000	02.427	****	100.001	.500/5		• • • • • • • • • • • • • • • • • • • •			
171.00	82.77	2431.22	1676.40	43.952	241.00	115.80	3417.16	2361.12	48.779
172.00	83.25	2445.00	1685.79	44.033	242.00	116.27	3431.52	2371.24	48.839
173.00	83.73	2458.79	1695.20	44.112	243.00	116.73	3445.88	2381.36	48.898
174.00	84.21	2472.59	1704.63	44,192	244.00	117.20	3460.25	2391.49	48.957
175.00	84.69	2486.40	1714.06	44.271	245.00	117.66	3474.63	2401.62	49.016
176.00	85.17	2500.22	1723.51	44.350	246.00	118.13	3489.00	2411.76	49.074
177.00	85.65	2514.04	1732.97	44.428	247.00	118.59	3503.38	2421.90	49.132
178.00	86.13	2527.88	1742.44	44.506	248.00	119.05	3517.77	2432.05	49.190
179.00	86.60	2541.72	1751.92	44.584	249.00	119.52	3532.16	2442.20	49.248
180.00	87.08	2555.57	1761.42	44.661	250.00	119,98	3546.55	2452.36	49.306
100100	0.000								
181.00	87.56	2569.44	1770.93	44.738	251.00	120.45	3560.94	2462.52	49.363
182.00	88.04	2583.31	1780.44	44.814	252.00	120.91	3575.34	2472.69	49.420
183.00	88.51	2597.18	1789.97	44.890	253.00	121.37	3589.74	2482.86	49.477
184.00	88.99	2611.07	1799.51	44.966	254.00	121.84	3604.14	2493.03	49.534
185.00	89.47	2624.96	1809.06	45.041	255.00	122.30	3618.55	2503.21	49.591
186.00	89.94	2638.87	1818.63	45.116	256.00	122.77	3632.96	2513.39	49.647
187.00	90.42	2652.78	1828.20	45.191	257.00	123.23	3647.37	2523.57	49.703
188.00	90.89	2666.70	1837.79	45.265	258.00	123.69	3661.78	2533.76	49.759
189.00	91.37	2680.63	1847.38	45.339	259.00	124.15	3676.19	2543.95	49.815
190.00	91.84	2694.56	1856.99	45.413	260.00	124.62	3690.61	2554.14	49.871
191.00	92.32	2708.51	1866.61	45.486	261.00	125.08	3705.03	2564.34	49.926
192.00	92.79	2722.46	1876.24	45,559	262.00	125.54	3719.45	2574.54	49.981
193.00	93.27	2736.43	1885.88	45.631	263.00	126.01	3733.88	2584.74	50.036
194.00	93.74	2750-40	1895.53	45.704	264.00	126.47	3748.30	2594.95	50.091
195.00	94.21	2764.38	1905.19	45.776	265.00	126.93	3762.73	2605.15	50.146
196.00	94.69	2778.37	1914.86	45.847	266.00	127.39	3777.16	2615.36	50.200
197.00	95.16	2792.37	1924.55	45.919	267.00	127.86	3791.59	2625.58	50.255
198.00	95.63	2806.37	1934.24	45.990	268.00	128.32	3806.02	2635.79	50.309
199.00	96.11	2820.39	1943.95	46.060	269.00	128.78	3820.46	2646.01	50.363
200.00	96.58	2834.42	1953.67	46.131	270.00	129.24	3834.90	2656.23	50.416
									_
201.00	97.05	2848.46	1963.40	46.201	271.00	129.71	3849.34	2666.46	
202.00	97.52	2862.51	1973.15	46.271	272.00	130.17	3863.78	2676.69	
203.00	97.99	2876.57	1982.90	46.340	273.00	130.63	3878.22	2686.92	50•576
204.00	98.47	2890.64	1992.67	46.410	274.00	131.09	3892.67	2697.15	50.629
205.00	98.94	2904.72	2002.45	46.478	275.00	131.55		2707.39	
206.00	99.41	2918.80	2012.24	46.547	276.00	132.02	3921.57	2717.63	50.735
207.00	99.88	2932.90	2022.04	46.615	277.00	132.48	3936.02	2727.87	
208.00	100.35	2947.01	2031.85	46.684	278.00	132.94		2738.12	
209.00	100.82	2961.12	2041.67	46.751	279.00	133.40		2748.37	
210.00	101.29	2975.25	2051.50	46.819	280.00	133.87	3979.40	2758.62	50.943
						104 65	2000 07	2748 66	50 00F
211.00	101.76	2989.38	2061.34	46.886	281.00	134.33		2768.88	
212.00	102.23	3003.52	2071.20	46.953	282.00	134.79		2779.14	
213.00	102.70	3017.68	2081.06	47.019	283.00	135.25		2789.41	
214.00	103.17	3031.84	2090.94	47.086	284.00	135.71	4037.29	2799.68	
215.00	103.64	3046.01	2100.82	47.152	285.00	136.17	_	2809.95	
216.00	104.11	3060.19	2110.72	47.218	286.00	136.64		2820.23	
217.00	104.58	3074.37	2120.63	47.283	287.00	137.10		2830.52	
218.00	105.05	3088.57	2130.54	47.349	288.00	137.56		2840.81	
219.00	105.52	3102.78	2140.47	47.414	289.00	138.02		2851-10	
220.00	105.99	3116.99	2150.41	47.478	290.00	138.48	4124.23	2861.41	51.452
				47	201 65	120 04	4120 74	2871 *1	61.501
221.00	106.46	3131.21	2160.35	47.543	291.00	138.94			
222.00	106.93	3145.44	2170.31	47.607	292.00	139.40		2882.02	
223.00	107.40	3159.68	2180.28	47.671	293.00	139.86		2892.34	
224.00	107.86	3173.92	2190.25	47.735	294.00	140.32		2902.66	
225.00	108.33	3188.18	2200.24	47.798	295.00	140.78		2912.99	
226.00	108.80	3202.44	2210.23	47.861	296.00	141.24			
227.00	109.27	3216.71	2220.24	47.924	297.00	141.70			
228.00	109.74	3230.98	2230.25	47.987	298.00	142.16		2944.01	
229.00	110.20	3245.27	2240.27	48.049	299.00	142.62		2954.36 2964.72	
230.00	110.67	3259.56	2250.30	48,111	300.00	143.08	4269.50	27044 /2	740747

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TEMPER-	SPECIFIC		INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					91.00	40.37	1351.05	962.48	35.202
					92.00	40.89	1364.80	971.30	35.353
					93.00	41.40	1378.52	980.10	35.501
					94.00	41.91	1392.21	988.87	35.648
					95.00	42.42	1405.87	997.62	35.792
					96.00	42.94	1419.51	1006.34	35.935
					97.00	43.45	1433.14	1015.04	36.076
					98.00	43.96	1446.76	1023.73	36.215
					99.00	44.47	1460.36	1032.39	36.353
30.00	13.37	444.23	318.50	19.243	100.00	44.97	1473.97	1041.04	36.488
31.00	13.51	454.53	325.23	19.536	101.00	45.48	1487.50	1049.71	36.623
32.00	13.65	465.29	332.73	19.839	102.00	45.99	1501.01	1058.37	36.756
33.00	13.81	476.49	340.95	20.152	103.00	46.49	1514.50	1067.02	36.888
34.00	13.99	488.13	349.85	20.472	104.00	46.99	1527.98	1075.67	37.018
35.00	14.18	500.18	359.36	20.800	105.00	47.49	1541.45	1084.32	37.146
36.00	14.38	512.64	369.43	21.134	106.00	47.99	1554.90	1092.96	37.274
37.00	14.60	525.49	380.02	21.473	107.00	48.49	1568.33	1101.60	37.400
38.00	14.83	538.72	391.07	21.816	108.00	48.99	1581.75	1110.24	37.525
39.00	15.08	552.29	402.53	22.164	109.00	49.49	1595.16	1118.88	37.648
40.00	15.35	566.20	414.34	22.513	110.00	49.98	1608.56	1127.51	37.771
						.,,,,			3.4.12
41.00	15.63	580.43	426.45	22.864	111.00	50.48	1621.95	1136.15	37.891
42.00	15.93	594.96	438.81	23.216	112.00	50.97	1635.32	1144.78	38.011
43.00	16.24	609.77	451.37	23.568	113.00	51.47	1648.69	1153.42	38.130
44.00	16.57	624.84	464.09	23.919	114.00	51.96	1662.04	1162.05	
45.00	16.91	640.15	476.90	24.268	115.00	52.45	1675.39	1170.68	38.247
46.00	17.27	655.67	489.77	24.615	116.00		1688.72	1179.31	38 • 363
47.00	17.65	671.40	502.64	24.959	117.00	52.93			38.479
48.00	18.04	687.30	515.50	25, 299		53.42	1702.05	1187.95	38.593
49.00	18.44	703.36	528.29	25.634	118.00	53.91	1715.37	1196.59	38.706
_					119.00	54.39	1728.68	1205.23	38.817
50.00	18.86	719.54	540.97	25.965	120.00	54.87	1741.98	1213.87	38.928
51.00	19.30	735.85	553.53	26.290	121 00			1200 51	
52.00	19.75	752.25	565.92		121.00	55.36	1755.28	1222.51	39.038
53.00				26.609	122.00	55.84	1768.58	1231.16	39.147
	20.21	768.72	578.12	26.921	123.00	56.32	1781.87	1239.82	39.255
54.00	20.68	785.25	590.13	27.227	124.00	56.79	1795.16	1248.48	39.362
55.00	21.17	801.81	601.91	27.527	125.00	57.27	1808.45	1257.15	39•468
56.00	21.66	818.39	613.46	27.819	126.00	57.75	1821.78	1265.86	39.574
57.00	22.17	834.92	625.19	28.112	127.00	58.23	1835.12	1274.58	39.680
58.00	22.69	851.53	635.88	28.384	128.00	58.71	1848.45	1283.32	39.785
59.00	23.22	868.14	646.05	28.644	129.00	59.18	1861.80	1292.06	39.888
60.00	23.76	884.69	656.02	28.896	130.00	59.66	1875.15	1300.82	39.992
61.00	24.29	901.16	666.03	29.145	131.00	60.14	1888.50	1309.59	40.094
62.00	24.84	917.50	676.21	29.394	132.00	60.61	1901.86	1318.37	40.196
63.00	25.38	933.73	686.62	29.642	133.00	61.09	1915.22	1327.17	40.297
64.00	25.92	949.83	697.28	29.891	134.00	61.56	1928.59	1335.97	40.397
65.00	26.46	965.81	708.14	30.140	135.00	62.03	1941.97	1344.79	40.497
66.00	27.00	981.68	719.16	30.389	136.00	62.51	1955.36		40.596
67.00	27.54	997.45	730.28	30.636	137.00	62.98	1968.75	1362.48	40.695
68.00	28.08	1013.13	741.43	30.880	138.00	63.45	1982.16	1371.34	40.793
69.00	28.62	1028.73	752.54	31.120	139.00	63.92	1995.57	1380.22	40.890
70.00	29.16	1044.25	763.55	31.355	140.00	64.39	2009.00	1389.12	40.987
					- 7000	34637	_007600	>	404701
71.00	29.70	1059.71	774.40	31.585	141.00	64.86	2022.43	1398.03	41.083
72.00	30.24	1075.10	785.07	31.809	142.00	65.33	2035.87	1406.95	41.178
73.00	30.78	1090.42	795.51	32.027	143.00	65.80	2049.33	1415.90	
74.00	31.32	1105.68	805.72	32.238	144.00	66.27		1424.86	41.273
75.00	31.87	1120.86	815.70	32.442			2062.80		41.367
76.00	32.41	1135.98	825.44	32.641	145.00	66.74	2076.28	1433.84	41.461
77.00					146.00	67.20	2089.77	1442.83	41.554
78.00	32.55 33.50	1151.01	834.98 844.34	32.833	147.00	67.67	2103.28	1451.84	41.647
		1165.96	844.34	33.020	148.00	68.14	2116.80	1460.87	41.739
79.00	34.04 34.50	1180.81	853.55	33.202	149.00	68.60	2130.33	1469.92	41.830
80.00	34.59	1195.57	862.64	33.380	150.00	69.07	2143.87	1478.99	41.921
61 00	25 12	1212	07	22 22-					
81.00	35.13	1210.22	871.65	33.555	151.00	69.54	2157.44	1488.08	42.011
82.00	35.67	1224.76	880.62	33.726	152.00	70.00	2171.03	1497.20	42.101
83.00	36.21	1239.20	889.58	33.895	153.00	70.46	2184.63	1506.33	42.190
84.00	36.74	1253.51	898.56	34.063	154.00	70.93	2198.24	1515.48	42.279
85.00	37.27	1267.72	907.58	34.229	155.00	71.39	2211.87	1524.64	42.367
86.00	37.80	1281.82	916.66	34.395	156.00	71.85	2225.51	1533.83	42.455
87.00	38.32	1295.81	925.80	34.560	157.00	72.31	2239.16	1543.03	42.542
88.00	38.83	1309.71	935.02	34.724	158.00	72.78	2252.83	1552.25	42.629
89.00	39.35	1323.52	944.30	34.887	159.00	73.24	2266.51	1561.49	42.715
90.00	39.85	1337.26	953.62	35.049	160.00	73.70	2280.20	1570.75	42.801

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		("J/GM)	
,			.0-017						
161.00	74.16	2293.91	1580.02	42.886	231.00	105.66	3275.57	2258.46	47.943
162.00	74.62	2307.63	1589.31	42.971	232.00	106.10	3289.89	2268.52	48.005
163.00	75.08	2321.36	1598.61	43.055	233.00	106.55	3304.22	2278.58	48.067
164.00	75.54	2335.10	1607.93	43.139	234.00	106.99	3318.55	2288.66	48.128
	76.00		1617.27	43.223	235.00	107.43	3332.89	2298.74	48.189
165.00		2348.86		43.306	236.00	107.87	3347.23	2308.82	48.250
166.00	76.46	2362.63	1626.62						
167.00	76.92	2376.41	1635.98	43.388	237.00	108.32	3361.58	2318.92	48.310
168.00	77.38	2390.19	1645.36	43.471	238.00	108.76	3375.94	2329.02	48.371
169.00	77.83	2403.99	1654.76	43.552	239.00	109.20	3390.29	2339.12	48.431
170.00	78.29	2417.80	1664.17	43.634	240.00	109.64	3404.66	2349.24	48.490
171.00	78.75	2431.61	1673.57	43.715	241.00	110.08	3419.03	2359.36	48.550
172.00	79.20	2445.42	1683.00	43.795	242.00	110.52	3433.40	2369.48	48.609
173.00	79.66	2459.25	1692.43	43.875	243.00	110.97	3447.78	2379.61	48.669
174.00	80.12	2473.08	1701.88	43.955	244.00	111.41	3462.16	2389.75	48.728
175.00	80.57	2486.92	1711.34	44.034	245.00	111.85	3476.55	2399.89	48.786
176.00	81.03	2500.77	1720.81	44.113	246.00	112.29	3490.94	2410.04	48.845
177.00	81.48	2514.62	1730.29	44.191	247.00	112.73	3505.33	2420.20	48.903
178.00	81.93	2528.49	1739.78	44.269	248.00	113.17	3519.73	2430.35	48.961
179.00	82.39	2542.36	1749.29	44.347	249.00	113.61	3534.13	2440.52	49.019
180.00	82.84	2556.24	1758.80	44.425	250.00	114.05	3548.54	2450.68	49.077
*00.00	02.00	2770024	1.20.00	778767	20000	.14607	2240424	2.20400	420011
181.00	83.29	2870 12	1768 22	44.501	251.00	114.49	3562.95	2460.85	49.134
		2570.13	1768.33		252.00			2471.03	
182.00	83.75	2584.03	1777.87	44.578		114.93	3577.36		49.191
183.00	84.20	2597.93	1787.42	44.654	253.00	115.37	3591.77	2481.21	49.248
184.00	84.65	2611.85	1796.98	44.730	254.00	115.81	3606.19	2491.39	49.305
185.00	85.10	2625.77	1806.55	44.806	255.00	116.25	3620.60	2501.58	49.362
186.00	85.56	2639.69	1816.13	44.881	256.00	116.69	3635.03	2511.77	49.418
187.00	86.01	2653.63	1825.72	44.956	257.00	117.13	3649.45	2521.96	49.474
188.00	86.46	2667.58	1835.32	45.030	258.00	117.57	3663.87	2532.16	49.530
189.00	86.91	2681.53	1844.94	45.104	259.00	118.00	3678.30	2542.36	49.586
190.00	87.36	2695.49	1854.56	45.178	260.00	118.44	3692.73	2552.56	49.642
191.00	87.81	2709.46	1864.20	45.251	261.00	118.88	3707.17	2562.76	49.697
192.00	88.26	2723.43	1873.84	45.324	262.00	119.32	3721.60	2572.97	49.753
193.00	88.71	2737.42	1883.50	45.397	263.00	119.76	7736.04	2583.18	49.808
194.00	89.16	2751.41	1893.17	45.470	264.00	120.20	3750.47	2593.40	49.863
				45.542	265.00	120.64	3764.92	2603.62	49.917
195.00	89.61	2765.42	1902.84					2613.84	49.972
196.00	90.06	2779.43	1912.53	45.614	266.00	121.08	3779.36		
197.00	90.51	2793.45	1922.23	45.685	267.00	121.51	3793.80	2624.06	50.026
198.00	90.95	2807.48	1931.94	45.756	268.00	121.95	3808.25	2634.28	50.080
199.00	91.40	2821.51	1941.66	45.927	269.00	122.39	3822.70	2644.51	50.134
200.00	91.85	2835.56	1951•40	45.898	270.00	122.83	3837.15	2654.74	50.188
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201.00	92.30	2849.62	1961.14	45.968	271.00	123.27	3851.60	2664.98	50 • 242
202.00	92.75	2863.69	1970.90	46.038	272.00	123.71	3866.06	2675.21	50.295
203.00	93.19	2877.77	1980.67	46.108	273.00	124.15	3880.51	2685.45	50.348
204.00	93.64	2891.86	1990.46	46.177	274.00	124.58	3894.97	2695.70	50.401
205.00	94.09	2905.96	2000.25	46.246	275.00	125.02	3909.44	2705.94	50.454
206.00	94.54	2920.07	2010.05	46.315	276.00	125.46	3923.90	2716.19	50.507
207.00	94.98	2934.19	2019.86	46.383	277.00	125.90	3938.37	2726.44	50.559
208.00	95.43	2948.31	2029.69	46.451	278.00	126.34	3952.84	2736.70	50.612
209.00	95.88	2962.45	2039.53	46.519	279.00	126.77	3967.31	2746.96	50.664
210.00	96.32	2976.59	2049.37	46.587	280.00	127.21	3981.79	2757.22	50.716
			_ 3 • • •		_ = 3 • • •				
211.00	94.77	2990.75	2059.23	46.654	281.00	127.65	3996.27	2767.49	50.767
212.00	97.21	3004.91	2069.10	46.721	282.00	128.09	4010.75	2777.76	50.819
213.00	97.66	3019.08	2078.97	46.788	283.00	128.53	4025.24	2788.04	50.870
214.00	98.11	3033.26	2088.86	46.855	284•00 285•00	128.96	4039.72	2798.32 2808.60	50.922
215.00	98.55	3047.45	2098.76	46.921		129.40	4054.22		50.973
216.00	99.00	3061.65	2108.67	46.987	286.00	129.84	4068.71	2818.89	51.023
217.00	99.44	3075.85	2118.59	47.052	287.00	130.28	4083.22	2829.18	51.074
218.00	99.89	3090.07	2128.52	47.118	288.00	130.71	4097.72	2839.48	51.124
219.00	100.33	3104.29	2138.46	47.183	289.00	131.15	4112.23	2849.79	51.175
220.00	100.78	3118.52	2148.41	47.248	290.00	131.59	4126.74	2860.09	51.225
221.00	101.22	3132.76	2158.37	47.312	291.00	132.02	4141.26	2870.41	51.275
222.00	101.67	3147.01	2168.34	47.376	292.00	132.46	4155.78	2880.73	51.324
223.00	102.11	3161.27	2178.31	47.440	293.00	132.90	4170.31	2891.05	51.374
224.00	102.56	3175.53	2188.30	47.504	294.00	133.33	4184.84	2901.38	51.423
225.00	193.00	3189.80	2198.30	47.568	295.00	133.77	4199.37	2911.72	51.472
226.00	103.44	3204.08	2208.30	47.631	296.00	134.21	4213.91	2922.06	51.521
227.00	103.89	3218.36	2218.32	47.694	297.00	134.64	4228.45	2932.41	51.570
228.00	104.33	3232.65	2228.34	47.757	298.00	135.08	4243.00	2942.76	51.618
229.00	104.78	3246.95	2238.37	47.819	299.00	135.51	4257.55	2953.12	51.666
230.00	105.22	3261.26	2248.41	47.881	300.00	135.94	4272.11	2963.48	51.715
€ 20 € UU	107042	2501850	22 .00 -1		200 • 00	-22074		2,00470	2.0

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TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
					•				
					91.00	38.61	1347.94	956.70	34.947
					92.00	39.09	1361.75	965.59	35.099
					93,00	39.58	1375.52	974.45	35.248
					94.00	40.06	1389.26	983.27	35.395
					95.00	40.54	1402.97	992.07	35.540
					96.00	41.03	1416.65	1000.84	35.684
					97.00	41.51	1430.31	1009.57	35.825
					98.00	42.00	1443.95	1018.28	35.964
					99.00	42.49	1457.58	1026.96	36.102
30.00	13.25	449.82	315.83	19.116	100.00	42.99	1471.19	1035.62	36.238
						,,,,	,	1033101	301230
31.00	13.42	459.10	322.98	19.413	101.00	43.47	1484.76	1044.32	36.373
32.00	13.59	468.99	330.84	19.719	102.00	43.95	1498.31	1053.02	36.506
33.00	13.77	479.47	339.36	20.033	103.00	44.43	1511.84	1061.71	36.638
34.00	13.95	490.50	348.50	20,354	104.00	44.90	1525.36	1070.40	36.769
35.00	14.14	502.06	358.19	20.681	105.00	45.38	1538.87	1079.09	36.898
36.00	14.33	514.13	368.38	21.014	106.00	45.86	1552.36		
37.00	14.53	526.67	379.04	21.350	107.00			1087.77	37.026
38.00	14.75	539.64	390.09	21.691		46.33	1565.85	1096.46	37.152
39.00	14.97	553.04			108.00	46.80	1579.32	1105.14	37.277
			401.49	22.034	109.00	47.28	1592.78	1113.82	37.401
40.00	15.20	566.81	413.20	22,379	110.00	47.75	1606.23	1122.50	37,524
41 00	18 44	880 04	495 17	22 224	111 00				
41.00	15.44	580.94	425.17	22.724	111.00	48.22	1619.67	1131.19	37.645
42.00	15.70	595.40	437.34	23.070	112.00	48.69	1633.10	1139.87	37.765
43.00	15.97	610.15	449.67	23.416	113.00	49.16	1646.53	1148.55	37.884
44.00	16.25	625.17	462.11	23.760	114.00	49.62	1659.94	1157.24	38.002
45.00	16.55	640.42	474.63	24.102	115.00	50.09	1673.35	1165.92	38.119
46.00	16.86	655.89	487.18	24.441	116.00	50.56	1686.75	1174.61	38.235
47.00	17.19	671.54	499.73	24,777	117.00	51.02	1700.15	1483.30	38.349
48.00	17.53	687.34	512.23	25.110	118.00	51.48	1713.54	1192.00	38.463
49.00	17.89	703.28	524.66	25,437	119.00	51.94	1726.92	1200.69	38.575
50.00	18.27	719.32	536.98	25.760	120.00	52.40	1740.29	1209.39	38.687
51.00	18.66	735.45	549.18	26,078	121.00	52.86	1753.67	1218.10	38,797
52.00	19.07	751.63	561.22	26,390	122.00	53.32	1767.03	1226.81	38.907
53.00	19.49	767.85	573.08	26,695	123.00	53.78	1780.40	1235.52	39.016
54.00	19.93	784.10	584.76	26,995	124.00	54.23	1793.76	1244.24	39.124
55.00	20.39	800.34	596.23	27,288	125.00	54.69	1807.12	1252.97	39.230
56.00	20.86	816.59	607.52	27,577	126.00	55.15	1820.51	1261.73	39.337
57.00	21.32	832.90	619.20	27.862	127.00	55.60	1833.91	1270.50	39,443
58.00	21.84	848.98	629.44	28,129	128.00	56.06	1847.31	1279.28	39.548
59.00	22.39	864.91	638.96	28.386	129.00	56.51	1860.71	1288.07	39.653
60.00	22.95	880.79	648.27	28,637	130.00	56.97	1874.11	1296.88	39.756
		0004.7	040421	20007	120000	70.77	1014911	1270.00	376130
61.00	23.51	896.67	657.71	28.886	131.00	57.42	1887.51	1305.69	39.859
62.00	24.07	912.56	667.45	29.134	132.00	57.87	1900.92	1314.51	39.961
63.00	24.61	928.48	677.60	29.382	133.00				
64.00	25.14	944.43	688.16	29.630	134.00	58.32	1914.34	1323.34	40.063
65.00	25.65	960.40		29.878		58.78	1927.76	1332.19	40-164
66.00	26.14		699.09		135.00	59.23	1941.18	1341.05	40.264
	26.62	976.38	710.30	30.125	136.00	59.68	1954.61	1349.92	40.363
67.00	_	992.34	721.72	30.371	137.00	60.13	1968.05	1358.80	40.462
68.00	27.09	1008.27	733.22	30.613	38.00	60.58	1981.49	1367.69	40.560
69.00	27.55	1024.14	744.70	30.852	9.00	61.02	1994.94	1376.60	40.658
70.00	28.01	1039.95	756.09	31.086	• 00	61.47	2008-40	1385.53	40.754
77	20 12	1022							
71.00	28.48	1055.66	767.30	31.316	141.00	61.92	2021.87	1394.46	40.851
72.00	28.95	1071.27	778.26	31.539	142.00	62.36	2035.35	1403.42	40.946
73.00	29.43	1086.77	788.95	31.756	143.00	62.81	2048.83	1412.38	41.041
74.00	29.92	1102.15	799.33	31.967	144.00	63.26	2062.33	1421.37	41.136
75.00	30.43	1117.40	809.41	32.172	145.00	63.70	2075.84	1430.37	41.230
76.00	30.95	1132.53	819.20	32,371	146.00	64.15	2089.36	1439.39	41.323
77.00	31.48	1147.53	828.72	32,564	147.00	64.59	2102.90	1448.42	41.416
78.00	32.03	1162.41	838.01	32.753	148.00	65.03	2116.44	1457.47	41.508
79.00	32.58	1177.17	847.12	32,936	149.00	65.48	2130.00	1466.54	41.599
80.00	33.13	1191.82	856.10	33.116	150.00	65.92	2143.58	1475.63	41.690
•						3			
81.00	33.69	1206.37	864.99	33.292	151.00	66.36	2157.18	1484.75	41.781
82.00	34.24	1220.83	873.87	33.465	152.00	66.80	2170.80	1493.89	41.871
83.00	34,79	1235.20	882.76	33.636	153.00	67.24	2184.44	1503.05	41.961
84.00	35.32	1249.49	891.71	33.805	154.00	67.69	2198.09		
85.00	35.84	1263.72	900.76	33.972	155.00			1512.23	42.050
86.00	36.34	1277.89	909.92	34.138		68.13	2211.75	1521.43	42.138
87.00	36.82	1292.01			156.00	68.57	2225.43	1530.64	42.226
88.00	37.27		919.21	34.304	157.00	69.01	2239.12	1539.87	42.314
		1306.08	928.63	34.468	158.00	69.45	2252.83	1549.12	42.401
89.00	37.71	1320-10	938.16	34.632	159.00	69.89	2266.55	1558.39	42.487
90.00	38.12	1334.09	947.77	34.794	160.00	70.32	2280.28	1567.67	42.573

								1	FHIRADY
Temper-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY	TEMPER-	SPECIFIC	ENTHALPY	INTERNAL	ENTROPY
ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)	ATURE	VOLUME	(J/GM)	ENERGY	(J/GM-K)
(K)	(CC/GM)		(J/GM)		(K)	(CC/GM)		(J/GM)	
		5304	1474 03		231.00	100.73	3277.34	2256.62	47.725
161.00	70.76	2294.02	1576.97	42.659 42.744	232.00	101.16	3291.67	2266.69	47.787
162.00	71.20	2307.78	1586.29	42.829	233.00	101.58	3306.02	2276.76	47.849
163.00	71.64	2321.55	1595.62 1604.97	42.913	234.00	102.00	3320.36	2286.85	47.910
164.00	72.08	2335.33		42.997	235.00	102.42	3334.72	2296.94	47.971
165.00	72.51	2349.13	1614.34		236.00	102.84	3349.07	2307.03	48.032
166.00	72.95	2362.93	1623.72	43.080 43.163	237.00	103.26	3363.44	2317.14	48.092
167.00	73.39	2376.75	1633.11			103.68	3377.80	2327.25	48.153
168.00	73.82	2390.57	1642.52	43.245 43.327	238.00 239.00	104.10	3392.18	2337.36	48.213
169.00	74.26	2404.41	1651.94		_	104.52	3406.56	2347.49	48.273
170.00	74.70	2418.26	1661.37	43.409	240.00	104072	3400.30	2341647	400213
171	76 12	2422 00	1470 81	43.490	241.00	104.94	3420.94	2357.61	48.332
171.00	75.13 75.57	2432.09	1670.81	43.571	242.00	105.36	3435.32	2367.75	48.392
172.00		2445.94 2459.79	1680.25 1689.71	43.651	243.00	105.78	3449.71	2377.89	48.451
173.00	76.00 76.43			43.731	244.00	106.20	3464.11	2388.03	48.510
174.00		2473.65	1699.18	43.810	245.00	106.62	3478.51	2398.18	48.569
175.00	76.87	2487.52	1708.66	43.889	246.00	107.04	3492.91	2408.34	48.627
176.00	77.30	2501.40	1718.15	43.968	247.00	107.46	3507.31	2418.50	48.685
177.00	77.73	2515.28	1727-65		248.00	107.87	3521.72	2428.66	48.743
178.00	78.16	2529.17	1737.16	44.046	249.00	108.29	3536.14	2438.83	48.801
179.00	78.60	2543.07	1746.68	44.124		108.71	3550.55	2449.01	48.859
180.00	79.03	2556.98	1756.22	44.202	250.00	100011	3330673	2447801	40.037
101	30	2674 44	1768 74	44 370	251 00	109.13	3564.97	2459.19	48.916
181.00	79.46	2570.89	1765.76	44.279	251.00 252.00	109.13	3579.39	2469.37	
182.00	79.89	2584.81	1775.32	44.355				2479.55	49.031
183.00	80.32	2598.74	1784.88	44.432	253.00	109.97	3593.81	2489.74	
184.00	80.75	2612.67	1794.46	44.508	254.00	110.38	3608•24 3622•67	2499.94	
185.00	81.18	2626.62	1804.04	44.583	255.00	110.80			49.201
186.00	81.61	2640.57	1813.64	44.659	256.00	111.22	3637-10	2510.14	49.257
187.00	82.04	2654.52	1823.25	44.733	257.00	111.64	3651.54	2520.34	
188.00	82.47	2668.49	1832.86	44.808	258.00	112.05	3665.97	2530.54	49.313
189.00	82.90	2682.46	1842.49	44.882	259.00	112.47	3680.41	2540.75	49.369
190.00	83.33	2696•44	1852.13	44.956	260.00	112.89	3694.86	2550.96	49.424
					243 24	410 21	2700 20	2561 17	40 490
191.00	83.75	2710.43	1861.78	45.030	261.00	113.31	3709.30	2561.17	
192.00	84.18	2724.43	1871.44	45.103	262.00	113.72	3723.75	2571.39	
193.00	84.61	2738.43	1881.11	45.176	263.00	114.14	3738.19	2581.61	
194.00	85.04	2752.44	1890.79	45.248	264.00	114.56	3752.65	2591.84	
195.00	85.46	2766.47	1900.48	45.320	265.00	114.97	3767.10	2602.06	
196.00	85.89	2780.50	1910.18	45.392	266.00	115.39	3781.55	2612.29	
197.00	86.32	2794.53	1919.90	45.464	267.00	115.81	3796.01	2522.52	
198.00	86.74	2808.58	1929.62	45.535	268.00	116.22	3810 • 47	2632.76	
199.00	87.17	2822.64	1939.35	45.606	269.00	116.64	3824.93	2643.00	
200.00	87.60	2836.70	1949.10	45.677	270.00	117.06	3839.40	2653.24	49.971
201.00	88.02	2850.79	1958.86	45.747	271.00	117.48	3853.87		
202.00	88.45	2864.88	1968.64	45.817	272.00	117.89	3868.34	2673.73	
203.00	89.88	2878.98	1978.42	45.887	273.00	118.31	3882.81	2683.99	
204.00	89.30	2893.09	1988.22	45.956	274.00	118.73	3897.28	2694.24	
205.00	89.73	2907.21	1998.03	46.025	275.00	119.14	3911.76	2704.50	
206.00	90.15	2921.34	2007.85	46.094	276.00	119.56	3926.24	2714.76	50 • 290
207.00	90.58	2935.48	2017.68	46.163	277.00	119.98	3940.73		
208.00	91.00	2949.63	2027.52	46.231	278.00	120.39		2735.29	
209.00	91.43	2963.79	2037.37	46.299	279.00	120.81		2745.57	
210.00	91.85	2977.95	2047.23	46.367	280.00	121.23	3984.19	2755.84	50.500
211.00	92.28	2992.13	2057.10	46.434	281.00	121.64			
212.00	92.70	3006.31	2066.99	46.501	282.00	122.06			
213.00	93.12	3020.50	2076.88	46.568	283.00	122.48	4027.69		
214.00	93.55	3034.70	2086.79	46.635	284.00	122.89	4042.19	2796•98	
215.00	93.97	3048.91	2096.70	46.701	285.00	123.31	4056.70	2807.28	
216.00	94.40	3063.13	2106.62	46.767	286.00	123.72			
217.00	94.82	3077.36	2116.56	46.833	287.00	124.14	4085.73	2827.89	50.859
218.00	95.24	3091.59	2126.50	46.898	288.00	124.56			
219.00	95.67	3105.84	2136.46	46.964	289.00	124.97			
220.00	96.09	3120.09	2146.42	47.029	290.00	125.39	4129.29	2858.83	51.009
			_						
221.00	96.51	3134.35	2156.40	47.093	291.00	125.80	4143.82		
222.00	96.94	3148.61	2166.38	47.158	292.00	126.22	4158.35	2879.48	
223.00	97.36	3162.89	2176.37	47.222	293.00	126.63			
224.00	97.78	3177.17	2186.37	47.286	294.00	127.05			
225.00	98.20	3191.46	2196.38	47.349	295.00	127.46			
226.00	98.63	3205.76	2206.40	47.412	296.00	127.87			
227.00	99.05	3220.06	2216.43	47.476	297.00	128.29			
228.00	99.47	3234.37	2226.46	47.538	298.00	128.70			
229.00	99.89	3248.69	2236.51	47.601	299.00	129.11			
730.00	100.31	3263.01	2246.56	47.663	300.00	129.53			
- 2000									

U. S. DEPARTMENT OF COMMERCE Luther II, Hodges, Secretary

NATIONAL BUREAU OF STANDARDS A. V. Asia, Director



THE NATIONAL BUREAU OF STANDARDS

The scope of activities of the National Bureau of Standards at its major laboratories in Washington, D.C., and Boulder, Colorado, is suggested in the following listing of the divisions and sections engaged in technical work. In general, each section carries out specialized research, development, and engineering in the field indicated by its title. A brief description of the activities, and of the resultant publications, appears on the inside of the front cover.

WASHINGTON, D.C.

Electricity. Resistance and Reactance. Electrochemistry. Electrical Instruments. Magnetic Measurements. Dielectrics.

Metrology. Photometry and Colorimetry. Refractometry. Photographic Research. Length. Engineering Metrology. Meas and Scale. Volumetry and Donnimetry.

Heat. Temperature Physics. Heat Measurements. Cryogenic Physics. Equation of State. Statistical Physics. Badiation Physics. X-ray. Radioactivity. Radiation Theory. High Energy Radiation. Radiological Equipment. Nucleonic Instrumentation. Neutron Physics.

Analytical and Inorganic Chemistry. Pure Substances. Spectrochemistry. Solution Chemistry. Standard Reference Materials. Applied Analytical Research.

Electronics. Sound. Pressure and Vacuum. Fluid Mechanics. Engineering Mechanics. Rheology. Combustion Controls.

Organic and Fibrous Materials. Rubber. Textiles. Paper. Leather. Testing and Specifications. Polymer Structure. Plastics. Dental Research.

Metallurgy. Thermal Metallurgy. Chemical Metallurgy. Mechanical Metallurgy. Corrosion. Metal Physics. Electrolysis and Metal Deposition.

Mizzal Products. Engineering Ceramics. Glass. Refractories. Enameled Metala. Crystal Growth. Physical Properties. Constitution and Microstructure.

Brilding Research. Structural Engineering. Fire Research. Mechanical Systems. Organic Building Materials. Codes and Safety Standards. Heat Transfer. Inorganic Building Materials.

Applied Mathematics. Numerical Analysis. Computation. Statistical Engineering. Mathematical Physics. Operations Research.

Data Processing Systems, Components and Techniques. Digital Circuitry. Digital Systems. Analog Systems. Applications Engineering.

Atomic Physics. Spectroscopy. Infrared Spectroscopy. Solid State Physics. Electron Physics. Atomic Physics. Instrumentation. Engineering Electronics. Electron Devices. Electronic Instrumentation. Mechanical Instruments. Basic Instrumentation.

Physical Chemistry. Thermochemistry. Surface Chemistry. Organic Chemistry. Molecular Spectroscopy. Molecular Kinetics. Mass Spectrometry.

Office of Weights and Measurez.

BOULDER, COLO.

Cryogenic Engineering. Cryogenic Equipment. Cryogenic Processes. Properties of Materials. Cryogenic Technical Services.

Ionosphere Research and Propagation. Low Frequency and Very Low Frequency Research. Ionosphere Research. Prediction Services. Sun-Earth Relationships. Field Engineering. Radio Warning-Services.

Radio Propagation Engineering. Data Reduction Instrumentation. Radio Noise. Tropospheric Measurements. Tropospheric Analysis. Propagation-Terrain Effects. Radio-Meteorology. Lower Atmosphere Physics.

Radio Standards. High Frequency Electrical Standards. Radio Broadcast Service. Radio and Microwave Materials. Atomic Frequency and Time Interval Standards. Electronic Calibration Center. Millimeter-Wave Research. Microwave Circuit Standards.

Radio Systems. High Frequency and Very High Frequency Research. Modulation Research. Antenna Research. Navigation Systems.

Upper Atmosphere and Space Physics. Upper Atmosphere and Plasma Physics. Ionosphere and Exosphere Scatter. Airglow and Aurora. Ionospheric Radio Astronomy.